

***** Welcome to STN International *****

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America
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NEWS 3 SEP 01 New pricing for the Save Answers for SciFinder Wizard within
STN Express with Discover!
NEWS 4 OCT 28 KOREAPAT now available on STN
NEWS 5 NOV 30 PHAR reloaded with additional data
NEWS 6 DEC 01 LISA now available on STN
NEWS 7 DEC 09 12 databases to be removed from STN on December 31, 2004
NEWS 8 DEC 15 MEDLINE update schedule for December 2004
NEWS 9 DEC 17 ELCOM reloaded; updating to resume; current-awareness
alerts (SDIs) affected
NEWS 10 DEC 17 COMPUAB reloaded; updating to resume; current-awareness
alerts (SDIs) affected
NEWS 11 DEC 17 SOLIDSTATE reloaded; updating to resume; current-awareness
alerts (SDIs) affected
NEWS 12 DEC 17 CERAB reloaded; updating to resume; current-awareness
alerts (SDIs) affected
NEWS 13 DEC 17 THREE NEW FIELDS ADDED TO IFIPAT/IFIUDB/IFICDB
NEWS 14 DEC 30 EPFULL: New patent full text database to be available on STN
NEWS 15 DEC 30 CAPLUS - PATENT COVERAGE EXPANDED
NEWS 16 JAN 03 No connect-hour charges in EPFULL during January and
February 2005
NEWS 17 FEB 25 CA/CAPLUS - Russian Agency for Patents and Trademarks
(ROSPATENT) added to list of core patent offices covered
NEWS 18 FEB 10 STN Patent Forums to be held in March 2005
NEWS 19 FEB 16 STN User Update to be held in conjunction with the 229th ACS
National Meeting on March 13, 2005
NEWS 20 FEB 28 PATDPAFULL - New display fields provide for legal status
data from INPADOC
NEWS 21 FEB 28 BABS - Current-awareness alerts (SDIs) available
NEWS 22 FEB 28 MEDLINE/LMEDLINE reloaded
NEWS 23 MAR 02 GBFULL: New full-text patent database on STN
NEWS 24 MAR 03 REGISTRY/ZREGISTRY - Sequence annotations enhanced
NEWS 25 MAR 03 MEDLINE file segment of TOXCENTER reloaded

NEWS EXPRESS JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a,
CURRENT

MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

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***** STN Columbus *****

FILE 'HOME' ENTERED AT 14:47:45 ON 08 MAR 2005

=> file caplus

| COST IN U.S. DOLLARS | ENTRY | SINCE FILE SESSION | TOTAL |
|----------------------|-------|--------------------|-------|
| FULL ESTIMATED COST | | 0.21 | 0.21 |

FILE 'CAPLUS' ENTERED AT 14:47:55 ON 08 MAR 2005

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FILE COVERS 1907 - 8 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 7 Mar 2005 (20050307/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s ring(1w)locked and tricarboyanine
458938 RING

20682 LOCKED
52 RING(1W)LOCKED
234 TRICARBOCYANINE
L1 0 RING(1W)LOCKED AND TRICARBOCYANINE

=> file reg

| COST IN U.S. DOLLARS | ENTRY | SINCE FILE SESSION | TOTAL |
|----------------------|-------|--------------------|-------|
| FULL ESTIMATED COST | | 6.12 | 6.33 |

FILE 'REGISTRY' ENTERED AT 14:48:33 ON 08 MAR 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES: 6 MAR 2005 HIGHEST RN 843607-47-6
DICTIONARY FILE UPDATES: 6 MAR 2005 HIGHEST RN 843607-47-6

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

Please note that search-term pricing does apply when
conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
<http://www.cas.org/ONLINE/DBSS/registryss.html>

=> tricarboyanine

TRICARBOCYANINE IS NOT A RECOGNIZED COMMAND

The previous command name entered was not recognized by the system.

For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s tricarboyanine

L2 128 TRICARBOCYANINE

=> s l2 and chromophore

25 CHROMOPHORE

L3 0 L2 AND CHROMOPHORE

=> d l2 1-128

L2 ANSWER 1 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 761404-89-1 REGISTRY
CN 6,7,6',7'-Dibenzothiatricarbocyanine (7CI) (CA INDEX NAME)
FS 3D CONCORD
MF C29 H20 N2 S2
SR CA
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Patent
RL.P Roles from patents: NORL (No role in record)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 2 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 161641-75-4 REGISTRY
CN 1H-Benz[e]indolium, 2-[2-[3-[[1,1-diethyl-1,3-dihydro-3-(3-sulfopropyl)-2H-benz[e]indol-2-ylidene]ethylidene]-2-[4-(ethoxycarbonyl)-1-piperazinyl]-1-cyclopenten-1-yl]ethenyl]-1,1-diethyl-3-(3-sulfopropyl)-, inner salt, compd. with N,N-diethylethanamine (1:1) (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Anhydro-11-(4-ethoxycarbonyl-1-piperazinyl)-10,12-ethylene-3,3,3',3'-tetraethyl-1,1'-di(3-sulfopropyl)-4,5,4',5'-dibenzoindotricarbocyanine hydroxide, triethylammonium salt (1:1)
MF C54 H66 N4 O8 S2 . C6 H15 N
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: USES (Uses)

CM 1

CRN 161641-74-3
CMF C54 H66 N4 O8 S2

CM 2

CRN 121-44-8
CMF C6 H15 N

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 3 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 122398-64-5 REGISTRY
CN 3H-Indolium, 2-[7-[1,3-dihydro-1-(2-methoxyethyl)-3,3-dimethyl-2H-indol-2-ylidene]-1,3,5-heptatrienyl]-1-(2-methoxyethyl)-3,3-dimethyl-, perchlorate (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,1'-Dimethoxyethyl-3,3,3',3'-tetramethyl-2,2'-indotricarbocyanine perchlorate
MF C33 H41 N2 O2 . Cl O4
SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Patent
RL.P Roles from patents: USES (Uses)

CM 1

CRN 112406-95-8
CMF C33 H41 N2 O2

CM 2

CRN 14797-73-0
CMF Cl O4

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 4 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 115840-01-2 REGISTRY
CN 3H-Indolium, 1-ethyl-2-[7-(1-ethyl-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene)-1,3,5-heptatrienyl]-3,3-dimethyl-, perchlorate (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,1'-Diethyl-3,3,3',3'-tetramethylindotricarbocyanine perchlorate
CN NK 2885
MF C31 H37 N2 . Cl O4

SR CA
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: ANST (Analytical study); USES (Uses)
RL.NP Roles from non-patents: PRP (Properties); USES (Uses)

CM 1

CRN 52754-40-2
CMF C31 H37 N2

CM 2

CRN 14797-73-0
CMF Cl O4

19 REFERENCES IN FILE CA (1907 TO DATE)
19 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 5 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 76788-03-9 REGISTRY
CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-2(3H)-benzothiazolylidene)-2-
[(phenylmethyl)amino]-1,3,5-heptatrienyl]-, perchlorate (9CI) (CA INDEX
NAME)

OTHER NAMES:

CN 3,3'-Diethyl-9-(benzylamino)thiatricbocyanine perchlorate
MF C32 H32 N3 S2 . Cl O4
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: USES (Uses)

CM 1

CRN 76788-02-8
CMF C32 H32 N3 S2

CM 2

CRN 14797-73-0
CMF Cl O4

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 6 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 76788-01-7 REGISTRY
CN Benzothiazolium, 2-[2-(butylamino)-7-(3-ethyl-2(3H)-benzothiazolylidene)-
1,3,5-heptatrienyl]-3-ethyl-, perchlorate (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 3,3'-Diethyl-9-(butylamino)thiatricarbocyanine perchlorate
MF C29 H34 N3 S2 . Cl O4
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: USES (Uses)

CM 1

CRN 76788-00-6
CMF C29 H34 N3 S2

CM 2

CRN 14797-73-0
CMF Cl O4

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 7 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 76787-99-0 REGISTRY
CN Benzothiazolium, 2-[2-(butylamino)-7-(3-ethyl-2(3H)-benzothiazolylidene)-
1,3,5-heptatrienyl]-3-ethyl-, iodide (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 3,3'-Diethyl-9-(butylamino)thiatricarbocyanine iodide
MF C29 H34 N3 S2 . I
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal

RL.NP Roles from non-patents: USES (Uses)
CRN (76788-00-6)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 8 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 76787-95-6 REGISTRY
CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-2(3H)-benzothiazolylidene)-2-methoxy-1,3,5-heptatrienyl]-, perchlorate (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 3,3'-Diethyl-9-methoxythiatricarbocyanine perchlorate
MF C26 H27 N2 O S2 . Cl O4
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: RACT (Reactant or reagent)

CM 1

CRN 76787-94-5
CMF C26 H27 N2 O S2

CM 2

CRN 14797-73-0
CMF Cl O4

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 9 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 76148-47-5 REGISTRY
CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-2(3H)-benzothiazolylidene)-4-(phenylthio)-1,3,5-heptatrienyl]-, iodide (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 3,3'-Diethyl-11-(phenylthio)thiatricarbocyanine iodide
MF C31 H29 N2 S3 . I
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)

DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)
CRN (790609-92-6)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 10 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 76148-46-4 REGISTRY
CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-2(3H)-benzothiazolylydene)-4-(ethylthio)-1,3,5-heptatrienyl]-, iodide (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 3,3'-Diethyl-11-(ethylthio)thiatricbocyanine iodide
MF C27 H29 N2 S3 . I
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)
CRN (780705-16-0)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 11 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 76148-45-3 REGISTRY
CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-2(3H)-benzothiazolylydene)-4-phenoxy-1,3,5-heptatrienyl]-, iodide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 3-Ethyl-2-[7-(3-ethyl-2-benzothiazolinylydene)-4-phenoxy-1,3,5-heptatrienyl]benzothiazolium iodide (7CI)
OTHER NAMES:
CN 3,3'-Diethyl-11-phenoxythiatricbocyanine iodide
MF C31 H29 N2 O S2 . I
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties); RACT
(Reactant or reagent)
CRN (114767-05-4)

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 12 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 76148-44-2 REGISTRY
CN Benzothiazolium, 2-[4-(cyclohexyloxy)-7-(3-ethyl-2(3H)-
benzothiazolylidene)-1,3,5-heptatrienyl]-3-ethyl-, iodide (9CI) (CA INDEX
NAME)
OTHER NAMES:
CN 11-(Cyclohexyloxy)-3,3'-diethylthiatricarbocyanine iodide
MF C31 H35 N2 O S2 . I
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)
CRN (763034-36-2)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 13 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 76148-43-1 REGISTRY
CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-2(3H)-benzothiazolylidene)-4-(3-
methylbutoxy)-1,3,5-heptatrienyl]-, iodide (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 3,3'-Diethyl-11-isopentoxythiatricarbocyanine iodide
MF C30 H35 N2 O S2 . I
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)
CRN (779989-13-8)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 14 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 76148-42-0 REGISTRY
CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-2(3H)-benzothiazolylidene)-4-
(pentyloxy)-1,3,5-heptatrienyl]-, iodide (9CI) (CA INDEX NAME)
OTHER NAMES:

CN 3,3'-Diethyl-11-pentoxythiatricarbocyanine iodide
MF C30 H35 N2 O S2 . I
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)
CRN (742012-37-9)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 15 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 76148-40-8 REGISTRY
CN Benzothiazolium, 3-methyl-2-[1,2,3-trichloro-3-(3-methyl-2(3H)-
benzothiazolylidene)-1-propenyl]-, tetrafluoroborate(1-) (9CI) (CA INDEX
NAME)
OTHER CA INDEX NAMES:
CN Borate(1-), tetrafluoro-, 3-methyl-2-[1,2,3-trichloro-3-(3-methyl-2(3H)-
benzothiazolylidene)-1-propenyl]benzothiazolium
OTHER NAMES:
CN 8,8',9-Trichloro-3,3'-dimethylthiatricarbocyanine borofluoride
MF C19 H14 Cl3 N2 S2 . B F4
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)

CM 1

CRN 76148-39-5
CMF C19 H14 Cl3 N2 S2

CM 2

CRN 14874-70-5
CMF B F4
CCI CCS

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 16 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 76148-34-0 REGISTRY
CN Benzothiazolium, 2-[4-ethoxy-7-(3-ethyl-2(3H)-benzothiazolylidene)-1,3,5-heptatrienyl]-3-ethyl-, iodide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 2-[4-Ethoxy-7-(3-ethyl-2-benzothiazolinyliidene)-1,3,5-heptatrienyl]-3-ethylbenzothiazolium iodide (7CI)
OTHER NAMES:
CN 11-Ethoxy-3,3'-diethylthiatricarbocyanine iodide
MF C27 H29 N2 O S2 . I
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)
CRN (767580-62-1)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 17 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 70066-45-4 REGISTRY
CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-2(3H)-benzothiazolylidene)-1,3,5-heptatrienyl]-, chloride (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 3-Ethyl-2-[7-(3-ethyl-2-benzothiazolinyliidene)-1,3,5-heptatrienyl]benzothiazolium chloride (6CI, 7CI)
OTHER NAMES:
CN 3,3'-Diethylthiatricarbocyanine chloride
MF C25 H25 N2 S2 . Cl
LC STN Files: CA, CAOLD, CAPLUS, CHEMCATS
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: USES (Uses)
RL.NP Roles from non-patents: PRP (Properties)
CRN (23178-68-9)

5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 18 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 63912-15-2 REGISTRY
CN Quolinium, 1-ethyl-4-[7-(1-ethyl-6-methoxy-4(1H)-quinolinylidene)-1,3,5-heptatrienyl]-6-methoxy-, iodide (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,1'-Diethyl-6,6'-dimethoxy-4,4'-quinotricarbocyanine iodide
MF C31 H33 N2 O2 . I
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties); USES (Uses)
CRN (786587-65-3)

****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 19 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 62317-24-2 REGISTRY
CN Naphtho[2,3-d]thiazolium, 3-ethyl-2-[7-(3-ethylnaphtho[2,3-d]thiazol-2(3H)-ylidene)-1,3,5-heptatrienyl]-, bromide (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 3,3'-Diethyl-5,6:5',6'-dibenzothiatricbocyanine bromide
MF C33 H29 N2 S2 . Br
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: USES (Uses)
RL.NP Roles from non-patents: USES (Uses)
CRN (754914-52-8)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 20 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 62317-23-1 REGISTRY
CN Benzosenazolium, 3-ethyl-2-[7-(3-ethyl-2(3H)-benzosenazolylidene)-1,3,5-heptatrienyl]-, bromide (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3,3'-Diethylselenatricarbocyanine bromide

MF C25 H25 N2 Se2 . Br

LC STN Files: CA, CAPLUS

DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: USES (Uses)

RL.NP Roles from non-patents: USES (Uses)

CRN (37069-85-5)

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 21 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 62317-22-0 REGISTRY

CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-5-phenyl-2(3H)-benzothiazolylidene)-1,3,5-heptatrienyl]-5-phenyl-, ethyl sulfate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Sulfuric acid, monoethyl ester, ion(1-), 3-ethyl-2-[7-(3-ethyl-5-phenyl-2(3H)-benzothiazolylidene)-1,3,5-heptatrienyl]-5-phenylbenzothiazolium

OTHER NAMES:

CN 3,3'-Diethyl-5,5'-diphenylthiatricarbocyanine ethyl sulfate

MF C37 H33 N2 S2 . C2 H5 O4 S

LC STN Files: CA, CAPLUS

DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: USES (Uses)

RL.NP Roles from non-patents: USES (Uses)

CM 1

CRN 62317-21-9

CMF C37 H33 N2 S2

CM 2

CRN 48028-76-8

CMF C2 H5 O4 S

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 22 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 59881-74-2 REGISTRY

CN 1H-Imidazo[4,5-b]quinoxalinium, 2-[7-(1,3-diethyl-1,3-dihydro-2H-imidazo[4,5-b]quinoxalin-2-ylidene)-1,3,5-heptatrienyl]-1,3-diethyl-, salt with 4-methylbenzenesulfonic acid (1:1) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2H-Imidazo[4,5-b]quinoxaline, 1H-imidazo[4,5-b]quinoxalinium deriv.

OTHER NAMES:

CN 1,1',3,3'-Tetraethylimidazo[4,5-b]quinoxalinotricarbocyanine
p-toluenesulfonate

MF C33 H35 N8 . C7 H7 O3 S

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: USES (Uses)

CM 1

CRN 53179-54-7

CMF C33 H35 N8

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE
STRUCTURE

CM 2

CRN 16722-51-3

CMF C7 H7 O3 S

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 23 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 59135-60-3 REGISTRY

CN Benzothiazolium, 2-[7-(3,5-dimethyl-2(3H)-thiazolylidene)-1,3,5-heptatrienyl]-3,5-dimethyl-, iodide (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3,3'-Dimethyl-2,2'-(5,5'-dimethyl)thiathiazolinotricarbocyanine
iodide

MF C21 H23 N2 S2 . I

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Journal

RL.NP Roles from non-patents: PRP (Properties)
CRN (736875-87-9)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 24 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 58857-61-7 REGISTRY
CN Tricarbocyanine N 1032 (9CI) (CA INDEX NAME)
MF Unspecified
CI MAN
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PROC (Process)

STRUCTURE DIAGRAM IS NOT AVAILABLE
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 25 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 58857-60-6 REGISTRY
CN Tricarbocyanine N 99 (9CI) (CA INDEX NAME)
MF Unspecified
CI MAN
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PROC (Process)

STRUCTURE DIAGRAM IS NOT AVAILABLE
1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 26 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 57472-19-2 REGISTRY
CN Quolinium, 1-ethyl-2-[7-(1-ethyl-2(1H)-quinolinylidene)-1,3,5-heptatrienyl]-, perchlorate (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,1'-Diethyl-2,2'-tricarbo-cyanine perchlorate
CN DTP
MF C29 H29 N2 . Cl O4
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: ANST (Analytical study); USES (Uses)
RL.NP Roles from non-patents: PRP (Properties); USES (Uses)

CM 1

CRN 37069-61-7
CMF C29 H29 N2

CM 2

CRN 14797-73-0
CMF Cl O4

9 REFERENCES IN FILE CA (1907 TO DATE)
9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 27 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 56289-67-9 REGISTRY
CN 3H-Indolium, 2-[2-[2-chloro-3-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)ethylidene]-1-cyclohexen-1-yl]ethenyl]-1,3,3-trimethyl-, iodide
(9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,1',3,3,3',3'-Hexamethyl-11-chloro-10,12-trimethyleneindotricarbocyanine iodide
CN IR 786 iodide
MF C32 H36 Cl N2 . I
LC STN Files: CA, CAPLUS, CASREACT, CHEMCATS, CSCHEM, TOXCENTER, USPAT2,
USPATFULL
DT.CA CAplus document type: Conference; Journal; Patent
RL.P Roles from patents: USES (Uses)
RL.NP Roles from non-patents: PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
CRN (69415-17-4)

17 REFERENCES IN FILE CA (1907 TO DATE)
17 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 28 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 55281-19-1 REGISTRY

CN Benzothiazolium, 2-[2-[2-(diphenylamino)-3-[(3-ethyl-2(3H)-benzothiazolylidene)ethylidene]-1-cyclopenten-1-yl]ethenyl]-3-ethyl-, perchlorate (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3,3'-Diethyl-10,12-ethylene-11-(N-methylanilino)thiatricarbocyanine perchlorate

CN NK 2268

MF C39 H36 N3 S2 . Cl O4

LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: USES (Uses)

RL.NP Roles from non-patents: MSC (Miscellaneous); PREP (Preparation); PRP (Properties); USES (Uses)

CM 1

CRN 55281-18-0

CMF C39 H36 N3 S2

CM 2

CRN 14797-73-0

CMF Cl O4

30 REFERENCES IN FILE CA (1907 TO DATE)

30 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 29 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 54957-10-7 REGISTRY

CN 1H-Benz[e]indolium, 2-[7-[1,3-dihydro-1,1-dimethyl-3-(4-sulfobutyl)-2H-benz[e]indol-2-ylidene]-1,3,5-heptatrienyl]-1,1-dimethyl-3-(4-sulfobutyl)-, iodide, monosodium salt (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3,3,3',3'-Tetramethyl-1,1'-di(4-sulfobutyl)-4,5;4',5'-dibenzoindotricarbocyanine iodide, monosodium salt

CN IR 125

CN IR 125 iodide

MF C43 H49 N2 O6 S2 . I . Na

LC STN Files: BIOSIS, CA, CAPLUS, PIRA, PROMT, TOXCENTER, USPATFULL

DT.CA Caplus document type: Conference; Journal; Patent

RL.P Roles from patents: ANST (Analytical study); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: USES (Uses)
RL.NP Roles from non-patents: PROC (Process); PRP (Properties); USES (Uses)
RLD.NP Roles for non-specific derivatives from non-patents: BIOL (Biological study)
CRN (13010-66-7)

28 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
28 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 30 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 54849-69-3 REGISTRY

CN 1H-Benz[e]indolium, 2-[2-[3-[[1,3-dihydro-1,1-dimethyl-3-(3-sulfopropyl)-2H-benz[e]indol-2-ylidene]ethylidene]-2-[4-(ethoxycarbonyl)-1-piperazinyl]-1-cyclopenten-1-yl]ethenyl]-1,1-dimethyl-3-(3-sulfopropyl)-, inner salt, compd. with N,N-diethylethanamine (1:1) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1H-Benz[e]indolium, 2-[2-[3-[[1,3-dihydro-1,1-dimethyl-3-(3-sulfopropyl)-2H-benz[e]indol-2-ylidene]ethylidene]-2-[4-(ethoxycarbonyl)-1-piperazinyl]-1-cyclopenten-1-yl]ethenyl]-1,1-dimethyl-3-(3-sulfopropyl)-, hydroxide, inner salt, compd. with N,N-diethylethanamine (1:1)

CN Ethanamine, N,N-diethyl-, compd. with 2-[2-[3-[[1,3-dihydro-1,1-dimethyl-3-(3-sulfopropyl)-2H-benz[e]indol-2-ylidene]ethylidene]-2-[4-(ethoxycarbonyl)-1-piperazinyl]-1-cyclopenten-1-yl]ethenyl]-1,1-dimethyl-3-(3-sulfopropyl)-1H-benz[e]indolium hydroxide inner salt (1:1)

OTHER NAMES:

CN Anhydro-11-(4-ethoxycarbonyl-1-piperazinyl)-10,12-ethylene-3,3,3',3'-tetramethyl-1,1'-di(3-sulfopropyl)-4,5;4',5'-dibenzoindotricarbocyanine hydroxide, triethylammonium salt

CN IR 144

CN Kodak IR 144

CN LC 8800

DR 58984-24-0, 55281-21-5, 144414-74-4, 90457-18-4

MF C50 H58 N4 O8 S2 . C6 H15 N

LC STN Files: ANABSTR, CA, CAPLUS, CHEMCATS, CHEMLIST, CSCHEM, MSDS-OHS,

TOXCENTER, USPATFULL

Other Sources: EINECS**, NDSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA Caplus document type: Conference; Dissertation; Journal; Patent

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);

PROC (Process); PRP (Properties); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); PROC (Process); PRP (Properties); USES (Uses)

CM 1

CRN 55660-40-7
CMF C50 H58 N4 O8 S2

CM 2

CRN 121-44-8
CMF C6 H15 N

86 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
86 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 31 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 54849-65-9 REGISTRY
CN Naphtho[1,2-d]thiazolium, 2-[2-[2-(diphenylamino)-3-[(1-ethylnaphtho[1,2-d]thiazol-2(1H)-ylidene)ethylidene]-1-cyclopenten-1-yl]ethenyl]-1-ethyl-, perchlorate (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 11-Diphenylamino-3,3'-diethyl-10,12-ethylene-4,5;4',5'-dibenzothiatricarbocyanine perchlorate
CN IR 143
MF C47 H40 N3 S2 . Cl O4
LC STN Files: CA, CAPLUS, USPATFULL
DT.CA CAplus document type: Conference; Journal; Patent
RL.P Roles from patents: USES (Uses)
RL.NP Roles from non-patents: PROC (Process); PRP (Properties); USES (Uses)

CM 1

CRN 54849-64-8
CMF C47 H40 N3 S2

CM 2

CRN 14797-73-0

CMF C1 O4

10 REFERENCES IN FILE CA (1907 TO DATE)

10 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 32 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 54849-63-7 REGISTRY

CN Naphtho[1,2-d]thiazolium, 2-[2-[2-(dimethylamino)-3-[(1-ethylnaphtho[1,2-d]thiazol-2(1H)-ylidene)ethylidene]-1-cyclopenten-1-yl]ethenyl]-1-ethyl-, perchlorate (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 11-Dimethylamino-3,3'-diethyl-10,12-ethylene-4,5;4',5'-dibenzothiatricarbocyanine perchlorate

CN IR 139

MF C37 H36 N3 S2 . C1 O4

LC STN Files: CA, CAPLUS

DT.CA Caplus document type: Conference; Journal; Patent

RL.P Roles from patents: USES (Uses)

RL.NP Roles from non-patents: PRP (Properties); USES (Uses)

CM 1

CRN 54849-62-6

CMF C37 H36 N3 S2

CM 2

CRN 14797-73-0

CMF C1 O4

4 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 33 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 54849-61-5 REGISTRY

CN Benzothiazolium, 2-[2-[3-[(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)ethylidene]-2-(1-pyrrolidinyl)-1-cyclopenten-1-yl]ethenyl]-3-ethyl-, iodide (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3'-Ethyl-10,12-ethylene-1,3,3-trimethyl-11-(1-pyrrolidinyl)indothiatricbocyanine iodide

MF C33 H38 N3 S . I

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Journal

RL.NP Roles from non-patents: PRP (Properties)

CRN (772281-39-7)

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 34 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 54123-57-8 REGISTRY

CN Quinolinium, 6-chloro-4-[7-(6-chloro-1-ethyl-4(1H)-quinolinylidene)-1,3,5-heptatrienyl]-1-ethyl-, iodide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 6-Chloro-4-[7-(6-chloro-1-ethyl-4(1H)-quinolylidene)-1,3,5-heptatrienyl]-1-ethylquinolinium iodide (7CI)

OTHER NAMES:

CN 1,1'-Diethyl-6,6'-dichloro-4,4'-quinotricarbocyanine iodide

CN NK 1949

MF C29 H27 Cl2 N2 . I

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)

DT.CA CAplus document type: Journal; Patent

RL.P Roles from patents: USES (Uses)

RL.NP Roles from non-patents: PRP (Properties)

CRN (136450-53-8)

9 REFERENCES IN FILE CA (1907 TO DATE)

9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 35 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 53655-17-7 REGISTRY

CN Benzothiazolium, 5-chloro-2-[2-[3-[(5-chloro-3-ethyl-2(3H)-benzothiazolylidene)ethylidene]-2-(diphenylamino)-1-cyclopenten-1-yl]ethenyl]-3-ethyl-, perchlorate (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 5,5'-Dichloro-11-(diphenylamino)-3,3'-diethyl-10,12-ethylenethiatricarbocyanine perchlorate

CN IR 140

CN IR 140 (dye)

CN Kodak IR 140

CN NK 2204

CN NSC 290436

DR 163968-98-7, 57035-55-9

MF C39 H34 Cl2 N3 S2 . Cl O4

LC STN Files: ANABSTR, CA, CAPLUS, CHEMCATS, CHEMLIST, CSCHEM, IFICDB,

IFIPAT, IFIUDB, MSDS-OHS, TOXCENTER, USPAT2, USPATFULL

Other Sources: EINECS**, NDSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA CAplus document type: Conference; Dissertation; Journal; Patent

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);

PROC (Process); PRP (Properties); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

CM 1

CRN 53655-16-6

CMF C39 H34 Cl2 N3 S2

CM 2

CRN 14797-73-0

CMF Cl O4

164 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

164 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 36 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 53060-64-3 REGISTRY

CN Thiazolium, 2-[7-(3,5-dimethyl-2-thiazolidinylidene)-1,3,5-heptatrienyl]-4,5-dihydro-3,5-dimethyl-, iodide (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3,3',5,5'-Tetramethyl-2,2'-thiazolinotricarbocyanine iodide

CN NK 746

MF C17 H25 N2 S2 . I

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Journal

RL.NP Roles from non-patents: PRP (Properties)

CRN (742003-92-5)

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 37 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 53060-63-2 REGISTRY

CN Benzoxazolium, 3-ethyl-2-[7-(3-ethyl-5,6-dimethyl-2(3H)-benzoxazolylidene)-1,3,5-heptatrienyl]-5,6-dimethyl-, iodide (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3,3'-Diethyl-5,5',6,6'-tetramethyl-2,2'-oxatricarbocyanine iodide

CN NK 1241

MF C29 H33 N2 O2 . I

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Journal

RL.NP Roles from non-patents: PRP (Properties)

CRN (709602-13-1)

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 38 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 53060-62-1 REGISTRY

CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-6-methoxy-2(3H)-benzothiazolylidene)-1,3,5-heptatrienyl]-6-methoxy-, iodide (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3,3'-Diethyl-6,6'-dimethoxy-2,2'-thiatricarbocyanine iodide

CN NK 1557

MF C27 H29 N2 O2 S2 . I
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PRP (Properties)
CRN (750512-42-6)

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 39 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 52811-04-8 REGISTRY
CN Benzothiazolium, 3-ethyl-2-[2-[3-[(3-ethyl-2(3H)-
benzothiazolylidene)ethylidene]-2-[4-(2-hydroxyethyl)-1-piperidinyl]-1-
cyclopenten-1-yl]ethenyl]-, iodide (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 3,3'-Diethyl-10,12-ethylene-11-[4-(2-hydroxyethyl)piperidino]thiatric
arbocyanine iodide
MF C34 H40 N3 O S2 . I
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB
DT.CA CAplus document type: Patent
RL.P Roles from patents: USES (Uses)
CRN (786583-14-0)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 40 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 52811-02-6 REGISTRY
CN Benzothiazolium, 2-[2-[2-[4-(4-chlorophenyl)-3-methyl-1-piperazinyl]-3-[(3-
ethyl-2(3H)-benzothiazolylidene)ethylidene]-1-cyclopenten-1-yl]ethenyl]-3-
ethyl-, perchlorate (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 11-[4-(4-Chlorophenyl)-3-methyl-1-piperazinyl]-3,3'-diethyl-10,12-
ethylenethiatricarbocyanine perchlorate
MF C38 H40 Cl N4 S2 . Cl O4
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB
DT.CA CAplus document type: Patent
RL.P Roles from patents: USES (Uses)

CRN 52811-01-5
CMF C38 H40 Cl N4 S2

CM 2

CRN 14797-73-0
CMF Cl O4

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 41 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 51437-63-9 REGISTRY

CN Naphth[2,1-d]oxazolium, 2-[2-[2-chloro-3-[(3-ethylnaphth[2,1-d]oxazol-2(3H)-ylidene)ethylidene]-1-cyclohexen-1-yl]ethenyl]-3-ethyl-, iodide
(9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3,3'-Diethyl-6,6',7,7'-dibenzo-11-chloro-10,12-trimethyleneoxatricarbocyanine iodide

CN 3,3'-Diethyl-6,7,6',7'-dibenzo-11-chloro-10,12-trimethyleneoxatricarbocyanine iodide

MF C36 H32 Cl N2 O2 . I

LC STN Files: CA, CAPLUS, CHEMCATS, TOXCENTER, USPATFULL

DT.CA CAplus document type: Conference; Journal; Patent

RL.P Roles from patents: USES (Uses)

RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties); RACT
(Reactant or reagent); USES (Uses)

CRN (783245-48-7)

7 REFERENCES IN FILE CA (1907 TO DATE)
7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 42 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 51239-02-2 REGISTRY

CN Quinolinium, 2-[3-bromo-7-(1-methyl-2(1H)-quinolinylidene)-1,3,5-heptatrienyl]-1-methyl-, iodide (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 11-Bromo-1,1'-dimethyl-2,2'-quinotricarbocyanine iodide

MF C27 H24 Br N2 . I

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Patent

RL.P Roles from patents: USES (Uses)

CRN (773789-54-1)

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 43 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 51011-03-1 REGISTRY

CN Naphtho[1,2-d]thiazolium, 2-[2-[2-(2,3-dihydro-1H-indol-1-yl)-3-[(1-ethylnaphtho[1,2-d]thiazol-2(1H)-ylidene)ethylidene]-1-cyclopenten-1-yl]ethenyl]-1-ethyl-, perchlorate (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3,3'-Diethyl-10,12-ethylene-11-(1-indoliny)-4,5,4',5'-

dibenzothiatricarbocyanine perchlorate

MF C43 H38 N3 S2 . Cl O4

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: USES (Uses)

CM 1

CRN 51011-02-0

CMF C43 H38 N3 S2

CM 2

CRN 14797-73-0

CMF Cl O4

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 44 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 51011-01-9 REGISTRY

CN Naphtho[1,2-d]thiazolium, 1-ethyl-2-[2-[3-[(1-ethylnaphtho[1,2-d]thiazol-2(1H)-ylidene)ethylidene]-2-(methylphenylamino)-1-cyclopenten-1-yl]ethenyl]-, perchlorate (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3,3'-Diethyl-10,12-ethylene-11-(N-methylanilino)-4,5,4',5'-dibenzothiatricarbocyanine perchlorate

MF C42 H38 N3 S2 . Cl O4

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: USES (Uses)

CM 1

CRN 51011-00-8

CMF C42 H38 N3 S2

CM 2

CRN 14797-73-0

CMF Cl O4

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 45 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 51010-99-2 REGISTRY

CN Naphtho[1,2-d]thiazolium, 2-[2-[2-[4-(ethoxycarbonyl)-1-piperidinyl]-3-[(1-ethylnaphtho[1,2-d]thiazol-2(1H)-ylidene)ethylidene]-1-cyclopenten-1-yl]ethenyl]-1-ethyl-, perchlorate (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 11-(4-Ethoxycarbonylpiperidino)-3,3'-diethyl-10,12-ethylene-4,5;4',5'-dibenzothiatricarbocyanine perchlorate

MF C43 H44 N3 O2 S2 . Cl O4

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

DT.CA CAplus document type: Journal; Patent

RL.P Roles from patents: USES (Uses)

RL.NP Roles from non-patents: PRP (Properties)

CM 1

CRN 51010-98-1

CMF C43 H44 N3 O2 S2

CM 2

CRN 14797-73-0

CMF Cl O4

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 46 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 51010-97-0 REGISTRY

CN Naphtho[2,3-d]thiazolium, 3-[3-(acetyloxy)propyl]-2-[2-[3-[[3-[3-(acetyloxy)propyl]naphtho[2,3-d]thiazol-2(3H)-ylidene]ethylidene]-2-(diphenylamino)-1-cyclopenten-1-yl]ethenyl]-, perchlorate (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 3,3'-Di(3-acetoxypentyl)-1,1'-diphenylamino-10,12-ethylene-5,6;5',6'-dibenzothiatricbocyanine perchlorate

CN NSC 290435

MF C53 H48 N3 O4 S2 . Cl O4

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

DT.CA CAplus document type: Journal; Patent

RL.P Roles from patents: USES (Uses)

RL.NP Roles from non-patents: PRP (Properties); USES (Uses)

CM 1

CRN 51010-96-9

CMF C53 H48 N3 O4 S2

CM 2

CRN 14797-73-0

CMF Cl O4

11 REFERENCES IN FILE CA (1907 TO DATE)
11 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 47 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 47809-39-2 REGISTRY
CN 1H-Benz[e]indolium, 2-[7-(1,3-dihydro-1,1,3-trimethyl-2H-benz[e]indol-2-ylidene)-1,3,5-heptatrienyl]-1,1,3-trimethyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,1',3,3,3',3'-Hexamethyl-4,4',5,5'-dibenzo-2,2'-indotricarbocyanine
FS 3D CONCORD
DR 102279-14-1, 95181-28-5, 147530-28-7
MF C37 H37 N2
CI COM
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: PROC (Process); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); PREP (Preparation); USES (Uses)
RL.NP Roles from non-patents: PROC (Process); PRP (Properties)

8 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
8 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 48 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 47676-39-1 REGISTRY
CN 3H-Indolium, 2-[7-(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-1,3,5-heptatrienyl]-1,3,3-trimethyl- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,1',3,3,3',3'-Hexamethylindotricarbocyanine
FS 3D CONCORD
MF C29 H33 N2
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, CHEMCATS, USPAT2, USPATFULL
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: ANST (Analytical study); PROC (Process); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); PREP (Preparation); USES (Uses)
RL.NP Roles from non-patents: PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

30 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
30 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 49 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 38234-62-7 REGISTRY
CN Naphtho[2,1-d]thiazolium, 3-ethyl-2-[7-(3-ethylnaphtho[2,1-d]thiazol-2(3H)-ylidene)-2-methyl-1,3,5-heptatrienyl]-, iodide (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 3,3'-Diethyl-6,7,6',7'-dibenzene-11'-methylthiatricarbocyanine iodide
MF C34 H31 N2 S2 . I
LC STN Files: CA, CAPLUS
DT.CA CPlus document type: Journal
RL.NP Roles from non-patents: PRP (Properties)
CRN (744965-82-0)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 50 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 37836-55-8 REGISTRY
CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-5-methoxy-2(3H)-benzothiazolylidene)-1,3,5-heptatrienyl]-5-methoxy-, iodide (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 3,3'-Diethyl-5,5'-dimethoxy-2,2'-thiatricarbocyanine iodide
CN NK 1558
MF C27 H29 N2 O2 S2 . I
LC STN Files: CA, CAPLUS, TOXCENTER
DT.CA CPlus document type: Journal; Patent
RL.P Roles from patents: BIOL (Biological study); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); PRP (Properties); RACT (Reactant or reagent); USES (Uses)
CRN (141947-51-5)

9 REFERENCES IN FILE CA (1907 TO DATE)
9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 51 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 37826-23-6 REGISTRY
CN Quinolinium, 2-[3-bromo-7-(1-ethyl-2(1H)-quinolinylidene)-1,3,5-heptatrienyl]-1-ethyl-, iodide (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,1'-Diethyl-11-bromo-2,2'-quinotricarbocyanine iodide
MF C29 H28 Br N2 . I
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PRP (Properties)
CRN (775518-03-1)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 52 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 37069-85-5 REGISTRY
CN Benzoselenazolium, 3-ethyl-2-[7-(3-ethyl-2(3H)-benzoselenazolylidene)-1,3,5-heptatrienyl]- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 3,3'-Diethylselenatricarbocyanine
MF C25 H25 N2 Se2
CI COM
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)
DT.CA CAplus document type: Conference; Journal
RL.NP Roles from non-patents: PRP (Properties)

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 53 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 37069-77-5 REGISTRY
CN Benzoxazolium, 3-ethyl-2-[7-(3-ethyl-2(3H)-benzoxazolylidene)-1,3,5-heptatrienyl]- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 3,3'-Diethyloxatricarbocyanine
FS 3D CONCORD
MF C25 H25 N2 O2
CI COM
LC STN Files: BEILSTEIN*, CA, CAPLUS, USPATFULL

(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: USES (Uses)
RL.NP Roles from non-patents: PROC (Process); PRP (Properties); RACT
(Reactant or reagent); USES (Uses)

9 REFERENCES IN FILE CA (1907 TO DATE)
9 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 54 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 37069-61-7 REGISTRY
CN Quolinium, 1-ethyl-2-[7-(1-ethyl-2(1H)-quinolinylidene)-1,3,5-
heptatrienyl]- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,1'-Diethyl-2,2'-quinotricarbocyanine
FS 3D CONCORD
DR 57472-18-1
MF C29 H29 N2
CI COM
LC STN Files: BEILSTEIN*, CA, CAPLUS

(*File contains numerically searchable property data)
DT.CA CAplus document type: Conference; Journal; Patent
RL.P Roles from patents: RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: PRP (Properties); USES (Uses)

10 REFERENCES IN FILE CA (1907 TO DATE)
10 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 55 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 36506-56-6 REGISTRY
CN Benzoxazolium, 3-ethyl-2-[2-[3-[(3-ethyl-2(3H)-
benzoxazolylidene)ethylidene]-2-(4-methyl-1-piperazinyl)-1-cyclopenten-1-
yl]ethenyl]- (9CI) (CA INDEX NAME)
OTHER NAMES:
CN Oxatricarbocyanine, 3,3'-diethyl-10,12-ethylene-11-(4-methyl-1-
piperazinyl)-
FS 3D CONCORD
MF C32 H37 N4 O2
CI COM

L2 ANSWER 56 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 35586-40-4 REGISTRY

CN Naphtho[2,3-d]thiazolium, 2-[2-[2-[4-(ethoxycarbonyl)-1-piperazinyl]-3-[[3-(3-sulfopropyl)naphtho[2,3-d]thiazol-2(3H)-ylidene]ethylidene]-1-cyclopenten-1-yl]ethenyl]-3-(3-sulfopropyl)-, inner salt, compd. with N,N-diethylethanamine (1:1) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ethanamine, N,N-diethyl-, compd. with 2-[2-[2-[4-(ethoxycarbonyl)-1-piperazinyl]-3-[[3-(3-sulfopropyl)naphtho[2,3-d]thiazol-2(3H)-ylidene]ethylidene]-1-cyclopenten-1-yl]ethenyl]-3-(3-sulfopropyl)naphtho[2,3-d]thiazolium hydroxide inner salt (1:1)

CN Naphtho[2,3-d]thiazolium, 2-[2-[2-[4-(ethoxycarbonyl)-1-piperazinyl]-3-[[3-(3-sulfopropyl)naphtho[2,3-d]thiazol-2(3H)-ylidene]ethylidene]-1-cyclopenten-1-yl]ethenyl]-3-(3-sulfopropyl)-, hydroxide, inner salt, compd. with N,N-diethylethanamine (1:1)

OTHER NAMES:

CN Anhydro-11-(4-ethoxycarbonylpiperazin-1-yl)-10,12-ethylene-3,3'-bis(3-sulfopropyl)-5,6;5',6'-dibenzothiatricbocyanine hydroxide triethylamine salt

MF C44 H46 N4 O8 S4 . C6 H15 N

LC STN Files: CA, CAPLUS, CHEMLIST

Other Sources: NDSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation)

CM 1

CRN 47901-76-8

CMF C44 H46 N4 O8 S4

CM 2

CRN 121-44-8

CMF C6 H15 N

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 57 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 35586-39-1 REGISTRY

CN Benzothiazolium, 2-[2-[2-[4-(ethoxycarbonyl)-1-piperazinyl]-3-[[3-(3-sulfopropyl)-2(3H)-benzothiazolylidene]ethylidene]-1-cyclopenten-1-yl]ethenyl]-3-(3-sulfopropyl)-, inner salt, compd. with
N,N-diethylethanamine (1:1) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Ethanamine, N,N-diethyl-, compd. with 2-[2-[2-[4-(ethoxycarbonyl)-1-piperazinyl]-3-[[3-(3-sulfopropyl)-2(3H)-benzothiazolylidene]ethylidene]-1-cyclopenten-1-yl]ethenyl]-3-(3-sulfopropyl)benzothiazolium hydroxide inner salt (1:1)

OTHER NAMES:

CN Anhydro-11-(4-ethoxycarbonylpiperazin-1-yl)-10,12-ethylene-3,3'-di(3-sulfopropyl)thiatricarbocyanine hydroxide triethylamine salt

MF C36 H42 N4 O8 S4 . C6 H15 N

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation)

CM 1

CRN 33627-97-3

CMF C36 H42 N4 O8 S4

CM 2

CRN 121-44-8

CMF C6 H15 N

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 58 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 34667-80-6 REGISTRY

CN Quinolinium, 1-heptyl-4-[7-(1-heptyl-4(1H)-quinolinylidene)-1,3,5-heptatrienyl]-, iodide (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 1,1'-Diheptyl-4,4'-quinotricarbocyanine iodide

MF C39 H49 N2 . I

LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER

(*File contains numerically searchable property data)

DT.CA CAplus document type: Journal; Patent

RL.P Roles from patents: USES (Uses)
RL.NP Roles from non-patents: BIOL (Biological study); USES (Uses)
CRN (782387-52-4)

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 59 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 34651-03-1 REGISTRY
CN Quinolinium, 1-heptyl-2-[7-(1-heptyl-2(1H)-quinolinylidene)-1,3,5-heptatrienyl]-, iodide (9CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,1'-Diheptyl-2,2'-quinotricarbocyanine iodide
MF C39 H49 N2 . I
LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: USES (Uses)
RL.NP Roles from non-patents: BIOL (Biological study); USES (Uses)
CRN (758623-25-5)

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 60 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 34035-21-7 REGISTRY
CN 3H-Indolium, 2-[7-(1,3-dihydro-1-methyl-2H-indol-2-ylidene)-1,3,5-heptatrienyl]-1-methyl-, iodide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 3H-Indolium, 1-methyl-2-[7-(1-methyl-2-indolinylidene)-1,3,5-heptatrienyl]-, iodide (8CI)
OTHER NAMES:
CN 1,1'-Dimethylindotricarbocyanine iodide
MF C25 H25 N2 . I
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PRP (Properties)
CRN (148874-57-1)

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 61 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 33675-88-6 REGISTRY

CN Benzoxazolium, 2-[2-[2-(diphenylamino)-3-[(3-ethyl-2(3H)-
benzoxazolylidene)ethylidene]-1-cyclopenten-1-yl]ethenyl]-3-ethyl-,
perchlorate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzoxazolium, 2-[2-[2-(diphenylamino)-3-[2-(3-ethyl-2-
benzoxazolinyliidene)ethylidene]-1-cyclopenten-1-yl]vinyl]-3-ethyl-,
perchlorate (8CI)

OTHER NAMES:

CN 11-Diphenylamino-3,3'-diethyl-10,12-ethyleneoxatricarbocyanine
perchlorate

MF C39 H36 N3 O2 . Cl O4

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB

DT.CA CAplus document type: Journal; Patent

RL.P Roles from patents: USES (Uses)

RL.NP Roles from non-patents: MSC (Miscellaneous); PREP (Preparation)

CM 1

CRN 47849-68-3

CMF C39 H36 N3 O2

CM 2

CRN 14797-73-0

CMF Cl O4

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 62 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 33675-87-5 REGISTRY

CN Benzoxazolium, 3-ethyl-2-[2-[3-[2-(3-ethyl-2-benzoxazolinyliidene)ethyliden
e]-2-(1-indolinyli)-1-cyclopenten-1-yl]vinyl]-, perchlorate (8CI) (CA

INDEX NAME)
OTHER NAMES:
CN 3,3'-Diethyl-10,12-ethylene-11-(1-indolinyl)oxatricarbocyanine
perchlorate
MF C35 H34 N3 O2 . Cl O4
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB
DT.CA CAplus document type: Patent
RL.P Roles from patents: USES (Uses)

CM 1

CRN 47817-34-5
CMF C35 H34 N3 O2

CM 2

CRN 14797-73-0
CMF Cl O4

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 63 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 33675-86-4 REGISTRY
CN Benzothiazolium, 3-ethyl-2-[2-[3-[2-(3-ethyl-2-
benzothiazolinyliidene)ethylidene]-2-piperidino-1-cyclohexen-1-yl]vinyl]-,
iodide (8CI) (CA INDEX NAME)
OTHER NAMES:
CN 3,3'-Diethyl-11piperidino-10,12-trimethylenethiatricarbocyanine
iodide
MF C33 H38 N3 S2 . I
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB
DT.CA CAplus document type: Patent
RL.P Roles from patents: USES (Uses)
CRN (732188-19-1)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 64 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 33675-85-3 REGISTRY
CN Benzothiazolium, 2-[2-[2-(4-methyl-1-piperazinyl)-3-[2-[3-(3-sulfopropyl)-2-benzothiazolinyldene]ethylidene]-1-cyclopenten-1-yl]vinyl]-3-(3-sulfopropyl)-, hydroxide, inner salt (8CI) (CA INDEX NAME)
OTHER NAMES:
CN Anhydro-10,12-ethylene-11-(4-methyl-1-piperazinyl)-3,3'-di(3-sulfophenyl)thiatricarbocyanine hydroxide
FS 3D CONCORD
MF C34 H40 N4 O6 S4
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB
DT.CA CAplus document type: Patent
RL.P Roles from patents: USES (Uses)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 65 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 33628-25-0 REGISTRY
CN Benzothiazolium, 2-[2-[2-(dimethylamino)-3-[(3-ethyl-2(3H)-benzothiazolyldene)ethylidene]-1-cyclopenten-1-yl]ethenyl]-3-ethyl-, perchlorate (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzothiazolium, 2-[2-[2-(dimethylamino)-3-[2-(3-ethyl-2-benzothiazolinyldene)ethylidene]-1-cyclopenten-1-yl]vinyl]-3-ethyl-, perchlorate (8CI)
OTHER NAMES:
CN 11-Dimethylamino-3,3'-diethyl-10,12-ethylenethiatricarbocyanine perchlorate
MF C29 H32 N3 S2 . Cl O4
LC STN Files: CA, CAPLUS, CHEMCATS, IFICDB, IFIPAT, IFIUDB
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: USES (Uses)
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)

CM 1

CRN 47747-49-9
CMF C29 H32 N3 S2

CM 2

CRN 14797-73-0
CMF Cl O4

****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 66 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 33628-24-9 REGISTRY

CN Naphtho[1,2-d]thiazolium, 2-[2-[2-(3,4-dihydro-1(2H)-quinolyl)-3-[2-(1- \square ethylnaphtho[1,2-d]thiazolin-2-ylidene)ethylidene]-1-cyclopenten-1- \square yl]vinyl]-1-ethyl-, perchlorate (8CI) (CA INDEX NAME)

OTHER NAMES:

CN 3,3'-Diethyl-10,12-ethylene-11[1-(1,2,3,4- \square

tetrahydroquinolyl)]4,5,4',5'-dibenzothiatricarbocyanine perchlorate

MF C44 H40 N3 S2 . Cl O4

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB

DT.CA CAplus document type: Patent

RL.P Roles from patents: USES (Uses)

CM 1

CRN 47875-57-0

CMF C44 H40 N3 S2

CM 2

CRN 14797-73-0

CMF Cl O4

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 67 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 33628-23-8 REGISTRY

CN 3H-Indolium, 2-[2-[2-(diethylamino)-3-[2-(1,3,3-trimethyl-2-

indolinylidene)ethylidene]-1-cyclopenten-1-yl]vinyl]-1,3,3-trimethyl-,
perchlorate (8CI) (CA INDEX NAME)

OTHER NAMES:

CN 11-Diethylamino-10,12-ethylene-1,1,3,3,3',3'-
hexamethylindotricarbocyanine perchlorate

MF C35 H44 N3 . Cl O4

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB

DT.CA CAplus document type: Patent

RL.P Roles from patents: USES (Uses)

CM 1

CRN 47799-02-0

CMF C35 H44 N3

CM 2

CRN 14797-73-0

CMF Cl O4

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 68 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 33628-22-7 REGISTRY

CN Benzothiazolium, 2-[2-[2-(diethylamino)-3-[(3-ethyl-2(3H)-
benzothiazolylidene)ethylidene]-1-cyclopenten-1-yl]ethenyl]-3-ethyl-,
perchlorate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzothiazolium, 2-[2-[2-(diethylamino)-3-[2-(3-ethyl-2-
benzothiazolinylidene)ethylidene]-1-cyclopenten-1-yl]vinyl]-3-ethyl-,
perchlorate (8CI)

OTHER NAMES:

CN 11-Diethylamino-3,3'-diethyl-10,12-ethylenethiatricarbocyanine
perchlate

MF C31 H36 N3 S2 . Cl O4

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB

DT.CA CAplus document type: Patent

RL.P Roles from patents: USES (Uses)

CM 1

CRN 47773-50-2
CMF C31 H36 N3 S2

CM 2

CRN 14797-73-0
CMF Cl O4

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 69 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 33628-21-6 REGISTRY
CN Quinolinium, 1-[2,5-bis[(3-ethyl-2(3H)-benzoxazolylidene)ethylidene]cyclopentylidene]-1,2,3,4-tetrahydro-, perchlorate (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzoxazolium, 2-[2-[2-(3,4-dihydro-1(2H)-quinolyl)-3-[2-(3-ethyl-2-benzoxazolinyldene)ethylidene]-1-cyclopenten-1-yl]vinyl]-3-ethyl-, perchlorate (8CI)
OTHER NAMES:
CN 3,3'-Diethyl-10,12-ethylene-11-[1-(1,2,3,4-tetrahydroquinolyl)]oxatricarbocyanine perchlorate
MF C36 H36 N3 O2 . Cl O4
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB
DT.CA CAplus document type: Patent
RL.P Roles from patents: USES (Uses)

CM 1

CRN 47825-61-6
CMF C36 H36 N3 O2

CM 2

CRN 14797-73-0
CMF Cl O4

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 70 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 33628-20-5 REGISTRY

CN Benzothiazolium, 3-ethyl-2-[2-[3-[(3-ethyl-2(3H)-benzothiazolylidene)ethylidene]-2-(4-morpholinyl)-1-cyclopenten-1-yl]ethenyl]-, iodide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzothiazolium, 3-ethyl-2-[2-[3-[2-(3-ethyl-2-benzothiazolylidene)ethylidene]-2-morpholino-1-cyclopenten-1-yl]vinyl]-, iodide (8CI)

OTHER NAMES:

CN 3,3'-Diethyl-10,12-ethylene-11-morpholinothiatricarbocyanine iodide

CN 3,3'-Diethyl-10,12-ethylene-12-morpholinothiatricarbocyanine iodide

CN IR 109

MF C31 H34 N3 O S2 . I

LC STN Files: CA, CAPLUS, CHEMCATS, IFICDB, IFIPAT, IFIUDB, USPATFULL

DT.CA CAplus document type: Conference; Journal; Patent

RL.P Roles from patents: USES (Uses)

RL.NP Roles from non-patents: PRP (Properties); USES (Uses)

CRN (685502-25-4)

6 REFERENCES IN FILE CA (1907 TO DATE)
6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 71 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 33628-19-2 REGISTRY

CN Benzothiazolium, 2-[2-[3-[(3-ethyl-2(3H)-benzothiazolylidene)ethylidene]-2-(1-piperidinyl)-1-cyclopenten-1-yl]ethenyl]-, iodide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzothiazolium, 3-ethyl-2-[2-[3-[2-(3-ethyl-2-benzothiazolylidene)ethylidene]-2-piperidino-1-cyclopenten-1-yl]vinyl]-, iodide (8CI)

OTHER NAMES:

CN 3,3'-Diethyl-10,12-ethylene-11-piperidinothiatricarbocyanine

iodide

MF C32 H36 N3 S2 . I

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB

DT.CA CAplus document type: Patent

RL.P Roles from patents: USES (Uses)

CRN (745719-63-5)

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 72 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 33628-16-9 REGISTRY

CN Benzothiazolium, 2-[2-[2-(dibutylamino)-3-[[3-(3-sulfopropyl)-2(3H)-benzothiazolylidene]ethylidene]-1-cyclopenten-1-yl]ethenyl]-3-(3-sulfopropyl)-, inner salt, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzothiazolium, 2-[2-[2-(dibutylamino)-3-[2-[3-(3-sulfopropyl)-2-benzothiazolylidene]ethylidene]-1-cyclopenten-1-yl]vinyl]-3-(3-sulfopropyl)-, hydroxide, inner salt, sodium salt (8CI)

OTHER NAMES:

CN Anhydro-11-dibutylamino-10,12-ethylene-3,3'-di(3-sulfopropyl)thiatricarbocyanine hydroxide, sodium salt

MF C37 H47 N3 O6 S4 . Na

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB

DT.CA CAplus document type: Patent

RL.P Roles from patents: USES (Uses)

CRN (736870-04-5)

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 73 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 33628-14-7 REGISTRY

CN Benzoxazolium, 2-[2-[2-(4-methyl-1-piperazinyl)-3-[2-[3-(3-sulfopropyl)-2-benzoxazolylidene]ethylidene]-1-cyclopenten-1-yl]vinyl]-3-(3-sulfopropyl)-, hydroxide, inner salt (8CI) (CA INDEX NAME)

OTHER NAMES:

CN Anhydro-10,12-ethylene-11-(4-methyl-1-piperazinyl)-3,3'-di(3-sulfopropyl)oxatricarbocyanine hydroxide

FS 3D CONCORD

MF C34 H40 N4 O8 S2
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB
DT.CA CAplus document type: Patent
RL.P Roles from patents: USES (Uses)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 74 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 33627-97-3 REGISTRY
CN Benzothiazolium, 2-[2-[2-(4-carboxy-1-piperazinyl)-3-[2-[3-(3-sulfopropyl)-2-benzothiazolinyldene]ethylidene]-1-cyclopenten-1-yl]vinyl]-3-(3-sulfopropyl)-, hydroxide, inner salt, 4-ethyl ester (8CI) (CA INDEX NAME)
OTHER NAMES:
CN Anhydro-11-(4-ethoxycarbonyl-1-piperazinyl)-10,12-ethylene-3,3'-di(3-sulfopropyl)thiatricarbocyanine hydroxide
FS 3D CONCORD
MF C36 H42 N4 O8 S4
CI COM
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB
DT.CA CAplus document type: Patent
RL.P Roles from patents: USES (Uses)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 75 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 33627-96-2 REGISTRY
CN Benzoxazolium, 2-[2-[2-[4-(ethoxycarbonyl)-1-piperazinyl]-3-[(3-ethyl-5-phenyl-2(3H)-benzoxazolylidene)ethylidene]-1-cyclopenten-1-yl]ethyl]-3-ethyl-5-phenyl-, perchlorate (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzoxazolium, 2-[2-[2-(4-carboxy-1-piperazinyl)-3-[2-(3-ethyl-5-phenyl-2-benzoxazolinyldene)ethylidene]-1-cyclopenten-1-yl]vinyl]-3-ethyl-5-phenyl-, perchlorate, ethyl ester (8CI)
OTHER NAMES:
CN 11-(4-Ethoxycarbonyl-1-piperazinyl)-3,3'-diethyl-10,12-ethylene-5,5'-diphenyloxatricarbocyanine perchlorate
MF C46 H47 N4 O4 . Cl O4
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: USES (Uses)

RL.NP Roles from non-patents: PRP (Properties)

CM 1

CRN 47888-29-9
CMF C46 H47 N4 O4

CM 2

CRN 14797-73-0
CMF Cl O4

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 76 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 33256-58-5 REGISTRY

CN Benzothiazolium, 3-ethyl-2-[2-[3-[(3-ethyl-2(3H)-
benzothiazolylidene)ethylidene]-2-(4-methyl-1-piperazinyl)-1-cyclopenten-1-
yl]ethenyl]-, perchlorate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzothiazolium, 3-ethyl-2-[2-[3-[2-(3-ethyl-2-
benzothiazolylidene)ethylidene]-2-(4-methyl-1-piperazinyl)-1-cyclopenten-
1-yl]vinyl]-, perchlorate (8CI)

OTHER NAMES:

CN 3,3'-Diethyl-10,12-ethylene-11-(4-methyl-1-
piperazinyl)thiatricarbocyanine perchlorate

MF C32 H37 N4 S2 . Cl O4

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); USES (Uses)

CM 1

CRN 47799-10-0
CMF C32 H37 N4 S2

CM 2

CRN 14797-73-0
CMF Cl O4

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 77 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 33249-88-6 REGISTRY
CN Benzoxazolium, 2-[2-[2-[4-(ethoxycarbonyl)-1-piperazinyl]-3-[(3-ethyl-2(3H)-benzoxazolylidene)ethylidene]-1-cyclopenten-1-yl]ethenyl]-3-ethyl-, perchlorate (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzoxazolium, 2-[2-[2-(4-carboxy-1-piperazinyl)-3-[2-(3-ethyl-2-benzoxazolinyldene)ethylidene]-1-cyclopenten-1-yl]vinyl]-3-ethyl-, perchlorate, ethyl ester (8CI)
OTHER NAMES:
CN 11-(4-Ethoxycarbonyl-1-piperazinyl)-3,3'-diethyl-10,12-ethyleneoxatricarbocyanine perchlorate
MF C34 H39 N4 O4 . Cl O4
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation); USES (Uses)

CM 1

CRN 47832-14-4
CMF C34 H39 N4 O4

CM 2

CRN 14797-73-0
CMF Cl O4

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 78 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 33214-90-3 REGISTRY

CN Benzothiazolium, 2-[2-[2-[4-(ethoxycarbonyl)-1-piperazinyl]-3-[(3-ethyl-2(3H)-benzothiazolylidene)ethylidene]-1-cyclopenten-1-yl]ethenyl]-3-ethyl-, perchlorate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzothiazolium, 2-[2-[2-(4-carboxy-1-piperazinyl)-3-[2-(3-ethyl-2-benzothiazolinylidene)ethylidene]-1-cyclopenten-1-yl]vinyl]-3-ethyl-, perchlorate, ethyl ester (8CI)

OTHER NAMES:

CN 11-(4-Ethoxycarbonyl-1-piperazinyl)-3,3'-diethyl-10,12-ethylenethiatricarbocyanine perchlorate

MF C34 H39 N4 O2 S2 . Cl O4

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); USES (Uses)

CM 1

CRN 47832-15-5

CMF C34 H39 N4 O2 S2

CM 2

CRN 14797-73-0

CMF Cl O4

5 REFERENCES IN FILE CA (1907 TO DATE)

5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 79 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 33214-89-0 REGISTRY

CN Benzothiazolium, 3-ethyl-2-[2-[3-[(3-ethyl-2(3H)benzothiazolylidene)ethylidene]-2-(4-ethyl-1-piperazinyl)-1-cyclopenten-1-yl]ethenyl]-, perchlorate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzothiazolium, 3-ethyl-2-[2-[3-[2-(3-ethyl-2-benzothiazolinylidene)ethylidene]-2-(4-ethyl-1-piperazinyl)-1-cyclopenten-1-yl]vinyl]-, perchlorate (8CI)

OTHER NAMES:

CN 3,3'-Diethyl-10,12-ethylene-11-(4-ethyl-1-piperazinyl)thiatricarbocyanine perchlorate

MF C33 H39 N4 S2 . Cl O4

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation)

CM 1

CRN 47810-90-2
CMF C33 H39 N4 S2

CM 2

CRN 14797-73-0
CMF Cl O4

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 80 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 33214-88-9 REGISTRY

CN Benzoxazolium, 3-ethyl-2-[2-[3-[(3-ethyl-2(3H)-
benzoxazolylidene)ethylidene]-2-(4-ethyl-1-piperazinyl)-1-cyclopenten-1-
yl]ethenyl]-, perchlorate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzoxazolium, 3-ethyl-2-[2-[3-[2-(3-ethyl-2-benzoxazolinyli-
dene)ethyliden
e]-2-(4-ethyl-1-piperazinyl)-1-cyclopenten-1-yl]vinyl]-, perchlorate (8CI)

OTHER NAMES:

CN 3,3'-Diethyl-10,12-ethylene-11-(4-ethyl-1-
piperazinyl)oxatricarbocyanine perchlorate

MF C33 H39 N4 O2 . Cl O4

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation)

CM 1

CRN 47810-89-9
CMF C33 H39 N4 O2

CM 2

CRN 14797-73-0

CMF Cl O4

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 81 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 33204-28-3 REGISTRY

CN Benzothiazolium, 3-ethyl-2-[2-[3-[(3-ethyl-2(3H)-benzothiazolylidene)ethylidene]-2-(4-phenyl-1-piperazinyl)-1-cyclopenten-1-yl]ethenyl]-, perchlorate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzothiazolium, 3-ethyl-2-[2-[3-[2-(3-ethyl-2-benzothiazolinylidene)ethylidene]-2-(4-phenyl-1-piperazinyl)-1-cyclopenten-1-yl]vinyl]-, perchlorate (8CI)

OTHER NAMES:

CN 3,3'-Diethyl-10,12-ethylene-11-(4-phenyl-1-piperazinyl)thiatricarbocyanine perchlorate

MF C37 H39 N4 S2 . Cl O4

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation)

CM 1

CRN 47844-13-3

CMF C37 H39 N4 S2

CM 2

CRN 14797-73-0

CMF Cl O4

2 REFERENCES IN FILE CA (1907 TO DATE)

2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 82 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 33204-27-2 REGISTRY

CN Benzoxazolium, 3-ethyl-2-[2-[3-[(3-ethyl-2(3H)-benzoxazolylidene)ethylidene]-2-(4-methyl-1-piperazinyl)-1-cyclopenten-1-yl]ethenyl]-, perchlorate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzoxazolium, 3-ethyl-2-[2-[3-[2-(3-ethyl-2-benzoxazolinyldiene)ethylidene]-2-(4-methyl-1-piperazinyl)-1-cyclopenten-1-yl]vinyl]-, perchlorate (8CI)

OTHER NAMES:

CN 3,3'-Diethyl-10,12-ethylene-11-(4-methyl-1-piperazinyl)oxatricarbocyanine perchlorate

MF C32 H37 N4 O2 . Cl O4

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); USES (Uses)

CM 1

CRN 36506-56-6

CMF C32 H37 N4 O2

CM 2

CRN 14797-73-0

CMF Cl O4

5 REFERENCES IN FILE CA (1907 TO DATE)

5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 83 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 32943-70-7 REGISTRY

CN Benzothiazolium, 2-[4-butoxy-7-(3-ethyl-2(3H)-benzothiazolylidene)-1,3,5-heptatrienyl]-3-ethyl-, iodide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-[4-Butoxy-7-(3-ethyl-2-benzothiazolinyldiene)-1,3,5-heptatrienyl]-3-ethylbenzothiazolium iodide (7CI)

CN Benzothiazolium, 2-[4-butoxy-7-(3-ethyl-2-benzothiazolinyldiene)-1,3,5-heptatrienyl]-3-ethyl-, iodide (8CI)

OTHER NAMES:

CN 11-Butoxy-3,3'-diethylthiatricarbocyanine iodide

MF C29 H33 N2 O S2 . I

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: PREP (Preparation)
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)
CRN (788095-04-5)

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 84 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 32943-68-3 REGISTRY
CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-2(3H)-benzothiazolylydene)-4-propoxy-1,3,5-heptatrienyl]-, iodide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 3-Ethyl-2-[7-(3-ethyl-2-benzothiazolinylydene)-4-propoxy-1,3,5-heptatrienyl]benzothiazolium iodide (7CI)
CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-2-benzothiazolinylydene)-4-propoxy-1,3,5-heptatrienyl]-, iodide (8CI)
OTHER NAMES:
CN 3,3'-Diethyl-11-propoxythiatricarbocyanine iodide
MF C28 H31 N2 O S2 . I
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: PREP (Preparation)
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)
CRN (769057-16-1)

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 85 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 32923-60-7 REGISTRY
CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-2(3H)-benzothiazolylydene)-4-(1-methylethoxy)-1,3,5-heptatrienyl]-, iodide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-2-benzothiazolinylydene)-4-isopropoxy-1,3,5-heptatrienyl]-, iodide (8CI)
OTHER NAMES:

CN 3,3'-Diethyl-11-isopropoxythiatricarbocyanine iodide
MF C28 H31 N2 O S2 . I
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: PREP (Preparation); PROC (Process); USES (Uses)
RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)
CRN (745719-54-4)

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 86 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 31043-75-1 REGISTRY
CN 3H-Indolium, 1-ethyl-2-[7-(1-ethyl-2-indolinylidene)-1,3,5-heptatrienyl]-
(8CI) (CA INDEX NAME)
OTHER NAMES:
CN 1,1'-Diethylindotricarbocyanine
FS 3D CONCORD
MF C27 H29 N2
CI COM
LC STN Files: BEILSTEIN*, CA, CAPLUS
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PRP (Properties); RACT (Reactant or reagent)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 87 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 28868-36-2 REGISTRY
CN 1H-Imidazo[4,5-c]pyridinium, 2-[3-(3,5-diethyl-1,3-dihydro-1-methyl-2H-imidazo[4,5-c]pyridinium-2-ylidene)propenyl]-3,5-diethyl-1-methyl-, triiodide (8CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Tricarbocyanine triiodide, bis(1-methyl-3,5-diethylimidazo[4,5-c]pyridine-2,2'-diyl)- (8CI)
MF C25 H35 N6 . 3 I
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation)
CRN (706748-56-3)

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE
STRUCTURE

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 88 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 28645-14-9 REGISTRY

CN Naphtho[1,2-d]thiazolium, 2-[2-[2-(diphenylamino)-3-[[1-(3-sulfopropyl)naphtho[1,2-d]thiazol-2(1H)-ylidene]ethylidene]-1-cyclopenten-1-yl]ethenyl]-1-(3-sulfopropyl)-, inner salt, compd. with
N,N-diethylethanamine (1:1) (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 4,5,4',5'-Dibenzothiatricbocyanine hydroxide, anhydro-11-diphenylamino-10,12-ethylene-3,3'-bis(3-sulfopropyl)-, salt with triethylamine (8CI)

CN Naphtho[1,2-d]thiazolium, 2-[2-[2-(diphenylamino)-3-[[1-(3-sulfopropyl)naphtho[1,2-d]thiazol-2(1H)-ylidene]ethylidene]-1-cyclopenten-1-yl]ethenyl]-1-(3-sulfopropyl)-, hydroxide, inner salt, compd. with triethylamine (1:1) (8CI)

CN Triethylamine, compd. with 2-[2-[2-(diphenylamino)-3-[2-[1-(3-sulfopropyl)naphtho[1,2-d]thiazolin-2-ylidene]ethylidene]-1-cyclopenten-1-yl]vinyl]-1-(3-sulfopropyl)naphtho[1,2-d]thiazolium hydroxide, inner salt (1:1) (8CI)

MF C49 H43 N3 O6 S4 . C6 H15 N

LC STN Files: CA, CAPLUS, CHEMCATS, IFICDB, IFIPAT, IFIUDB

DT.CA CAplus document type: Journal; Patent

RL.P Roles from patents: PREP (Preparation); USES (Uses)

RL.NP Roles from non-patents: PROC (Process); PRP (Properties); USES (Uses)

CM 1

CRN 47905-43-1

CMF C49 H43 N3 O6 S4

CM 2

CRN 121-44-8

CMF C6 H15 N

4 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 89 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 27981-86-8 REGISTRY
CN Benzothiazolium, 3-(2-carboxyethyl)-2-[2-[3-[2-[3-(2-carboxyethyl)-5-chloro-2-benzothiazolinyliidene]ethylidene]-2-(N-methylanilino)-1-cyclopenten-1-yl]vinyl]-5-chloro-, hydroxide, inner salt (8CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Thiatricarbocyanine hydroxide, anhydro-3,3'-bis(2-carboxyethyl)-5,5'-dichloro-10,12-ethylene-11-N-methylanilino- (8CI)
FS 3D CONCORD
MF C36 H31 Cl2 N3 O4 S2
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 90 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 27713-89-9 REGISTRY
CN 3H-Indolium, 1,3,3-trimethyl-2-[2-[2-(1-pyrrolidiny)-3-[2-(1,3,3-trimethyl-2-indolinyliidene)ethylidene]-1-cyclopenten-1-yl]vinyl]-, iodide (8CI) (CA INDEX NAME)
OTHER NAMES:
CN 10,12-Ethylene-1,1',3,3,3',3'-hexamethyl-11-(1-pyrrolidiny)indotriarbocyanine iodide
MF C35 H42 N3 . I
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation); USES (Uses)
CRN (802604-52-0)

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 91 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 26708-98-5 REGISTRY
CN Naphtho[1,2-d]thiazolium, 2-[2-[2-[bis(carboxymethyl)amino]-3-[2-(1-

ethylnaphtho[1,2-d]thiazolin-2-ylidene)ethylidene]-1-cyclopenten-1-yl]vinyl]-1-ethyl-, p-toluenesulfonate, diethyl ester (8CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 4,5,4',5'-Dibenzothiatricarbocyanine p-toluenesulfonate,
11-bis(ethoxycarbonylmethyl)amino-3,3'-diethyl-10,12-ethylene- (8CI)
MF C43 H44 N3 O4 S2 . C7 H7 O3 S
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation)

CM 1

CRN 47883-73-8
CMF C43 H44 N3 O4 S2

CM 2

CRN 16722-51-3
CMF C7 H7 O3 S

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 92 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 26581-34-0 REGISTRY

CN Benzothiazolium, 2-[2-[2-(N-methylanilino)-3-[2-[3-(3-sulfopropyl)-2-benzothiazolinyliidene]ethylidene]-1-cyclopenten-1-yl]vinyl]-3-(3-sulfopropyl)-, hydroxide, inner salt, sodium salt (8CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Thiatricarbocyanine hydroxide, anhydro-10,12-ethylene-11-methylanilino-3,3'-bis(3-sulfopropyl)-, sodium salt (8CI)
MF C36 H37 N3 O6 S4 . Na
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation)
CRN (185840-02-2)

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 93 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 26529-11-3 REGISTRY

CN Benzothiazolium, 5-chloro-2-[2-[3-[(5-chloro-3-ethyl-2(3H)-
benzothiazolylidene)ethylidene]-2-(methylphenylamino)-1-cyclopenten-1-
yl]ethenyl]-3-ethyl-, iodide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzothiazolium, 5-chloro-2-[2-[3-[2-(5-chloro-3-ethyl-2-
benzothiazolylidene)ethylidene]-2-(N-methylanilino)-1-cyclopenten-1-
yl]vinyl]-3-ethyl-, iodide (8CI)

CN Thiatricarbocyanine iodide, 5,5'-dichloro-3,3'-diethyl-10,12-ethylene-
11-N-methylanilino- (8CI)

OTHER NAMES:

CN 5,5'-Dichloro-3,3'-diethyl-10,12-ethylene-11-(N-
methylanilino)thiatricarbocyanine iodide

CN IR 141

MF C34 H32 Cl2 N3 S2 . I

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, USPATFULL

DT.CA CAplus document type: Conference; Journal; Patent

RL.P Roles from patents: ANST (Analytical study); PREP (Preparation); USES
(Uses)

RL.NP Roles from non-patents: PRP (Properties); USES (Uses)

CRN (207567-87-1)

7 REFERENCES IN FILE CA (1907 TO DATE)

7 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 94 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 26529-10-2 REGISTRY

CN Benzoxazolium, 3-ethyl-2-[2-[3-[(3-ethyl-2(3H)-
benzoxazolylidene)ethylidene]-2-(methylphenylamino)-1-cyclopenten-1-
yl]ethenyl]-, perchlorate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzoxazolium, 3-ethyl-2-[2-[3-[2-(3-ethyl-2-benzoxazolylidene)ethyliden
e]-2-(N-methylanilino)-1-cyclopenten-1-yl]vinyl]-, perchlorate (8CI)

CN Oxatricarbocyanine perchlorate, 3,3'-diethyl-10,12-ethylene-11-(N-
methylanilino)- (8CI)

MF C34 H34 N3 O2 . Cl O4

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); USES (Uses)

CM 1

CRN 47810-88-8
CMF C34 H34 N3 O2

CM 2

CRN 14797-73-0
CMF Cl O4

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 95 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 26529-09-9 REGISTRY

CN Benzosenazolium, 2-[2-[2-(diphenylamino)-3-[(3-ethyl-2(3H)-
benzosenazolylidene)ethylidene]-1-cyclopenten-1-yl]ethenyl]-3-ethyl-,
perchlorate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzosenazolium, 2-[2-[2-(diphenylamino)-3-[2-(3-ethyl-2-
benzosenazolinylidene)ethylidene]-1-cyclopenten-1-yl]vinyl]-3-ethyl-,
perchlorate (8CI)

CN Selenatricarbocyanine perchlorate, 11-diphenylamino-3,3'-diethyl-
10,12-ethylene- (8CI)

MF C39 H36 N3 Se2 . Cl O4

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB

DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: PREP (Preparation)

RL.NP Roles from non-patents: MSC (Miscellaneous); PREP (Preparation); USES
(Uses)

CM 1

CRN 47849-69-4
CMF C39 H36 N3 Se2

CM 2

CRN 14797-73-0
CMF Cl O4

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 96 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 26529-08-8 REGISTRY

CN Benzothiazolium, 2-[2-[2-(diphenylamino)-3-[2-[3-(2-hydroxyethyl)-2-benzothiazolinyli-
dene]ethylidene]-1-cyclopenten-1-yl]vinyl]-3-(2-hydroxyethyl)-, perchlorate (8CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Thiatricarbocyanine perchlorate, 11-diphenylamino-10,12-ethylene-3,3'-bis(2-hydroxyethyl)- (8CI)

MF C39 H36 N3 O2 S2 . Cl O4

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation)

CM 1

CRN 47862-23-7
CMF C39 H36 N3 O2 S2

CM 2

CRN 14797-73-0
CMF Cl O4

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 97 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 26529-07-7 REGISTRY

CN Benzothiazolium, 3-(2-carboxyethyl)-2-[2-[3-[2-[3-(2-carboxyethyl)-5-chloro-2-benzothiazolinyli-
dene]ethylidene]-2-(diphenylamino)-1-cyclopenten-1-yl]vinyl]-5-chloro-, hydroxide, inner salt (8CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Thiatricarbocyanine hydroxide, anhydro-3,3'-bis(2-carboxyethyl)-5,5'-dichloro-11-diphenylamino-10,12-ethylene- (8CI)
FS 3D CONCORD
MF C41 H33 Cl2 N3 O4 S2
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation)

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 98 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 26529-06-6 REGISTRY
CN Benzothiazolium, 2-[2-[2-[bis(2-ethoxy-2-oxoethyl)amino]-3-[2-(3-ethyl-2(3H)-benzothiazolylidene)ethylidene]-1-cyclopenten-1-yl]ethenyl]-3-ethyl-, iodide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzothiazolium, 2-[2-[2-[bis(carboxymethyl)amino]-3-[2-(3-ethyl-2-benzothiazolinyldiene)ethylidene]-1-cyclopenten-1-yl]vinyl]-3-ethyl-, iodide, diethyl ester (8CI)
CN Thiatricarbocyanine iodide, 11-bis(ethoxycarbonylmethyl)amino-3,3'-diethyl-10,12-ethylene- (8CI)
OTHER NAMES:
CN 11-Bis(ethoxycarbonylmethyl)amino-3,3'-diethyl-10,12-ethylenethiatricarbocyanine iodide
MF C35 H40 N3 O4 S2 . I
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB
DT.CA CAplus document type: Patent
RL.P Roles from patents: PREP (Preparation); USES (Uses)
CRN (786578-83-4)

4 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 99 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 23178-68-9 REGISTRY
CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-2(3H)-benzothiazolylidene)-1,3,5-heptatrienyl]- (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-2-benzothiazolinyldiene)-1,3,5-

heptatrienyl]- (8CI)

OTHER NAMES:

CN 3,3'-Diethylthiatricarbocyanine

FS 3D CONCORD

DR 166535-36-0

MF C25 H25 N2 S2

CI COM

LC STN Files: BEILSTEIN*, CA, CANCERLIT, CAPLUS, CASREACT, CHEMCATS,

MEDLINE, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

DT.CA CAplus document type: Conference; Journal; Patent

RL.P Roles from patents: RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PRP (Properties); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: PRP (Properties)

73 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

73 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 100 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 23178-67-8 REGISTRY

CN 1H-Benz[e]indolium, 2-[7-(1,3-dihydro-1,1,3-trimethyl-2H-benz[e]indol-2-ylidene)-1,3,5-heptatrienyl]-1,1,3-trimethyl-, perchlorate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1H-Benz[e]indolium, 1,1,3-trimethyl-2-[7-(1,1,3-trimethylbenz[e]indolin-2-ylidene)-1,3,5-heptatrienyl]-, perchlorate (8CI)

OTHER NAMES:

CN 1,1',3,3,3',3'-Hexamethyl-4,4',5,5'-dibenzo-2,2'-indotricarbocyanine perchlorate

CN HDITC

CN HDITCP

CN NK 2014

DR 102279-15-2, 91372-10-0

MF C37 H37 N2 . Cl O4

CI COM

LC STN Files: CA, CAPLUS, CHEMCATS, CHEMLIST, CSCHEM, TOXCENTER, USPAT2,

USPATFULL

Other Sources: EINECS**, NDSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA CAplus document type: Conference; Journal; Patent

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); PRP (Properties); USES (Uses)

CM 1

CRN 47809-39-2

CMF C37 H37 N2

CM 2

CRN 14797-73-0

CMF Cl O4

258 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

258 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 101 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 23178-65-6 REGISTRY

CN Naphtho[2,1-d]thiazolium, 3-ethyl-2-[7-(3-ethylnaphtho[2,1-d]thiazol-2(3H)-ylidene)-1,3,5-heptatrienyl]-, iodide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Naphtho[2,1-d]thiazolium, 3-ethyl-2-[7-(3-ethylnaphtho[2,1-d]thiazolin-2-ylidene)-1,3,5-heptatrienyl]-, iodide (8CI)

OTHER NAMES:

CN 3,3'-Diethyl-6,6',7,7'-dibenzothiatricarbocyanine iodide

CN NK 1887

MF C33 H29 N2 S2 . 1

LC STN Files: BEILSTEIN*, CA, CAPLUS, TOXCENTER

(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: PREP (Preparation); USES (Uses)
RL.NP Roles from non-patents: BIOL (Biological study); PROC (Process); PRP
(Properties); USES (Uses)
CRN (64285-42-3)

11 REFERENCES IN FILE CA (1907 TO DATE)
11 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 102 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 22268-66-2 REGISTRY
CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-2(3H)-benzothiazolylidene)-1,3,5-
heptatrienyl]-, perchlorate (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-2-benzothiazolylidene)-1,3,5-
heptatrienyl]-, perchlorate (8CI)
OTHER NAMES:
CN 3,3'-Diethylthiatricarbocyanine perchlorate
MF C25 H25 N2 S2 . Cl O4
LC STN Files: BEILSTEIN*, CA, CAPLUS, CHEMCATS, CHEMLIST, CSCHEM,
MSDS-OHS,

TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

Other Sources: NDSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
USES (Uses)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
study); USES (Uses)
RL.NP Roles from non-patents: PROC (Process); PRP (Properties)

CM 1

CRN 23178-68-9
CMF C25 H25 N2 S2

CM 2

CRN 14797-73-0

CMF C1 O4

28 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

28 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 103 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 20682-22-8 REGISTRY

CN Thiazolium, 3-ethyl-2-[7-(3-ethyl-5-methyl-2-thiazolidinylidene)-1,3,5-heptatrienyl]-4,5-dihydro-5-methyl-, iodide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 2-Thiazolinium, 3-ethyl-2-[7-(3-ethyl-5-methyl-2-thiazolidinylidene)-1,3,5-heptatrienyl]-5-methyl-, iodide (8CI)

CN Thiazolinotricarbocyanine iodide, 3,3'-diethyl-5,5'-dimethyl-

OTHER NAMES:

CN 3,3'-Diethyl-2,2'-(5,5'-dimethyl)thiazolinotricarbocyanine iodide

MF C19 H29 N2 S2 . I

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Journal

RL.NP Roles from non-patents: PRP (Properties)

CRN (103052-03-5)

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 104 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 20682-18-2 REGISTRY

CN Naphtho[1,2-d]thiazolium, 1-ethyl-2-[7-(1-ethylnaphtho[1,2-d]thiazol-2(1H)-ylidene)-1,3,5-heptatrienyl]-, iodide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 4,5,4',5'-Dibenzothiatricarbocyanine iodide, 3,3'-diethyl- (8CI)

CN Naphtho[1,2-d]thiazolium, 1-ethyl-2-[7-(1-ethylnaphtho[1,2-d]thiazolin-2-ylidene)-1,3,5-heptatrienyl]-, iodide (8CI)

OTHER NAMES:

CN 3,3'-Diethyl-2,2'-(4,4',5,5'-dibenzo)thiatricarbocyanine iodide

CN 3,3'-Diethyl-4,5,4',5'-dibenzothiatricarbocyanine iodide

CN DIBENZO

CN Dibenzocyanin 45

CN Dibenzocyanine 45

CN NK 427

DR 79632-98-7

MF C33 H29 N2 S2 . I

LC STN Files: BEILSTEIN*, CA, CAPLUS, MSDS-OHS, PIRA, TOXCENTER, USPAT2,

USPATFULL

(*File contains numerically searchable property data)

DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PROC (Process); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); PROC (Process); PRP (Properties); USES (Uses)

CRN (53179-52-5)

28 REFERENCES IN FILE CA (1907 TO DATE)

28 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 105 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 20658-86-0 REGISTRY

CN 3H-Indolium, 1-ethyl-2-[7-(1-ethyl-1,3-dihydro-2H-indol-2-ylidene)-1,3,5-heptatrienyl]-, iodide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 3H-Indolium, 1-ethyl-2-[7-(1-ethyl-2-indolinylidene)-1,3,5-heptatrienyl]-, iodide (8CI)

CN Indotricarbocyanine iodide, 1,1'-diethyl-

OTHER NAMES:

CN 1,1'-Diethylindotricarbocyanine iodide

MF C27 H29 N2 . I

LC STN Files: CA, CAPLUS, TOXCENTER

DT.CA Caplus document type: Journal; Patent

RL.P Roles from patents: USES (Uses)

RL.NP Roles from non-patents: PRP (Properties); RACT (Reactant or reagent)

CRN (31043-75-1)

3 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 106 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 20658-84-8 REGISTRY

CN Benzothiazolium, 3-ethyl-2-[2-[5-[(3-ethyl-2(3H)-benzothiazolylidene)methyl]-2-furanyl]ethenyl]-, iodide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzo[thiazolium, 3-ethyl-2-[2-[5-[(3-ethyl-2-benzothiazolinylidene)methyl]-2-furyl]vinyl]-, iodide (8CI)
CN Thiatricarboxyanine iodide, 3,3'-diethyl-9,12-epoxy-
OTHER NAMES:
CN 3,3'-Diethyl-9,12-epoxythiatricarboxyanine iodide
MF C25 H23 N2 O S2 . I
LC STN Files: CA, CAPLUS, TOXCENTER
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PRP (Properties)
CRN (756754-95-7)

3 REFERENCES IN FILE CA (1907 TO DATE)
3 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 107 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 20658-83-7 REGISTRY
CN Benzo[thiazolium, 3-ethyl-2-[[7-[(3-ethyl-2(3H)-thiazolylidene)methyl]-4,4a,5,6-tetrahydro-2(3H)-naphthalenyliidene]methyl]-, iodide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzo[thiazolium, 3-ethyl-2-[[7-[(3-ethyl-4-thiazolin-2-ylidene)methyl]-4,4a,5,6-tetrahydro-2(3H)-naphthylidene]methyl]-, iodide (8CI)
CN Thiathiazolinotricarboxyanine iodide, 3,3'-diethyl-9,11,13-(penta-1",3",5"-triyl)-
OTHER NAMES:
CN 3,3'-Diethyl-9,11,13(penta-1',3',5'-triyl)-
thiathiazolinotricarboxyanine iodide
CN 3,3'-Diethyl-9,11,13-(penta-1",3",5"-triyl)-
thiathiazolinotricarboxyanine iodide
CN 3,3'-Diethyl-9,11,13-(penta-1",3",5"-triyl)thiathiazolinotricarboxyanine iodide
MF C26 H29 N2 S2 . I
LC STN Files: CA, CAPLUS
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PRP (Properties); RACT (Reactant or reagent)
CRN (744954-59-4)

5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 108 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 20285-90-9 REGISTRY
CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-2(3H)-benzothiazolylidene)-4-methoxy-1,3,5-heptatrienyl]-, iodide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 3-Ethyl-2-[7-(3-ethyl-2-benzothiazolinylidene)-4-methoxy-1,3,5-heptatrienyl]benzothiazolium iodide (7CI)
CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-2-benzothiazolinylidene)-4-methoxy-1,3,5-heptatrienyl]-, iodide (8CI)
OTHER NAMES:
CN 3,3'-Diethyl-11-methoxythiatricarbocyanine iodide
MF C26 H27 N2 O S2 . I
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: PREP (Preparation); PROC (Process); PRP (Properties); USES (Uses)
CRN (96643-44-6)

5 REFERENCES IN FILE CA (1907 TO DATE)
5 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 109 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 20285-89-6 REGISTRY
CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-2(3H)-benzothiazolylidene)-4-methyl-1,3,5-heptatrienyl]-, iodide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 3-Ethyl-2-[7-(3-ethyl-2-benzothiazolinylidene)-4-methyl-1,3,5-heptatrienyl]benzothiazolium iodide (7CI)
CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-2-benzothiazolinylidene)-4-methyl-1,3,5-heptatrienyl]-, iodide (8CI)
OTHER NAMES:
CN 3,3'-Diethyl-11-methylthiatricarbocyanine iodide
MF C26 H27 N2 S2 . I
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, TOXCENTER
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: USES (Uses); NORL (No role in record)
RL.NP Roles from non-patents: PROC (Process); PRP (Properties); USES (Uses)
CRN (114767-06-5)

9 REFERENCES IN FILE CA (1907 TO DATE)
9 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 110 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 19764-96-6 REGISTRY

CN 3H-Indolium, 2-[7-(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-1,3,5-heptatrienyl]-1,3,3-trimethyl-, iodide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 3H-Indolium, 1,3,3-trimethyl-2-[7-(1,3,3-trimethyl-2-indolinyliidene)-1,3,5-heptatrienyl]-, iodide (8CI)

OTHER NAMES:

CN 1,1',3,3,3',3'-Hexamethyl-2,2'-indotricarbocyanine iodide

CN 1,1',3,3,3',3'-Hexamethylindoletricarboyanine iodide

CN 1,1',3,3,3',3'-Hexamethylindotricarbocyanine iodide

CN 1,3,3,1',3',3'-Hexamethyl-2,2'-indotricarbocyanine iodide

CN 1,3,3,1',3',3'-Hexamethylindoletricarboyanine iodide

CN 2-[7-(1,3,3-Trimethylindoline-2-ylidene)-1,3,5-heptatrienyl]-1,3,3-trimethyl-3H-indolium iodide

CN HEXA

CN Hexacyanin 3

CN Hexacyanine 3

CN HITC

CN HITCI

CN LC 8500

CN NK 125

DR 59873-60-8, 85537-49-1

MF C29 H33 N2 . I

LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, CHEMLIST,

CSCHEM, MSDS-OHS, TOXCENTER, USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: EINECS**, NDSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);

PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES

(Uses); NORL (No role in record)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); FORM (Formation, nonpreparative); MSC (Miscellaneous); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RLD.NP Roles for non-specific derivatives from non-patents: PREP (Preparation); PRP (Properties)

CRN (47676-39-1)

****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

377 REFERENCES IN FILE CA (1907 TO DATE)
7 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
377 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 111 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 19764-95-5 REGISTRY
CN Benzoxazolium, 3-methyl-2-[7-(3-methyl-2(3H)-benzoxazolylidene)-1,3,5-heptatrienyl]-, iodide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzoxazolium, 3-methyl-2-[7-(3-methyl-2-benzoxazolinyliidene)-1,3,5-heptatrienyl]-, iodide (8CI)
CN Oxatricarbocyanine iodide, 3,3'-dimethyl- (8CI)
OTHER NAMES:
CN 3,3'-Dimethyl-2,2'-oxatricarbocyanine iodide
CN 3,3'-Dimethyloxatricarbocyanine iodide
CN DMOTC
CN NK 199
CN OXA
DR 79818-57-8
MF C23 H21 N2 O2 . I
CI COM
LC STN Files: BEILSTEIN*, BIOSIS, CA, CAPLUS, IFICDB, IFIPAT, IFIUDB, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
DT.CA Caplus document type: Conference; Journal; Patent
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PROC (Process); USES (Uses)
RL.NP Roles from non-patents: PRP (Properties); RACT (Reactant or reagent); USES (Uses)
CRN (60387-96-4)

46 REFERENCES IN FILE CA (1907 TO DATE)
46 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 112 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 19764-90-0 REGISTRY
CN Quinolinium, 1-ethyl-4-[7-(1-ethyl-4(1H)-quinolinylidene)-1,3,5-heptatrienyl]-, iodide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Ethyl-4-[7-(1-ethyl-4(1H)-quinolylidene)-1,3,5-heptatrienyl]quinolinium iodide (7CI)
CN 4,4'-Quinotricarbocyanine iodide, 1,1'-diethyl-
CN Quinolinium, 1-ethyl-4-[7-(1-ethyl-4(1H)-quinolylidene)-1,3,5-heptatrienyl]-, iodide (8CI)
OTHER NAMES:
CN 1,1'-Diethyl-4,4'-quinotricarbocyanine iodide
CN 4,4'-Quinotricarbocyanine iodide
CN NK 124
CN NK 124 (dye)
CN Xenocyanine
MF C29 H29 N2 . I
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CHEMCATS, CSCHEM, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: USES (Uses)
RLD.P Roles for non-specific derivatives from patents: USES (Uses)
RL.NP Roles from non-patents: BIOL (Biological study); PRP (Properties); USES (Uses); NORL (No role in record)
CRN (16651-35-7)

36 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
36 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 113 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 19764-83-1 REGISTRY
CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-5,6-dimethoxy-2(3H)-benzothiazolylidene)-1,3,5-heptatrienyl]-5,6-dimethoxy-, iodide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-5,6-dimethoxy-2-benzothiazolinyliidene)-1,3,5-heptatrienyl]-5,6-dimethoxy-, iodide (8CI)

CN Thiatricarbocyanine iodide, 3,3'-diethyl-5,6,5',6'-tetramethoxy-

OTHER NAMES:

CN 3,3'-Diethyl-2,2'-(5,5',6,6'-tetramethoxy)thiatricarbocyanine
iodide

CN 3,3'-Diethyl-2,2'-(5,6,5',6'-tetramethoxy)thiatricarbocyanine
iodide

CN 3,3'-Diethyl-5,5',6,6'-tetramethoxy-2,2'-thiatricarbocyanine
iodide

CN NK 428

MF C29 H33 N2 O4 S2 . I

LC STN Files: CA, CAPLUS

DT.CA CAplus document type: Journal

RL.NP Roles from non-patents: PRP (Properties)

CRN (149682-84-8)

6 REFERENCES IN FILE CA (1907 TO DATE)

6 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 114 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 19208-25-4 REGISTRY

CN Benzothiazolium, 3-ethyl-2-[[7-[(3-ethyl-2(3H)-benzothiazolylidene)methyl]-
4,4a,5,6-tetrahydro-2(3H)-naphthalenylidene]methyl]-, iodide (9CI) (CA
INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzothiazolium, 3-ethyl-2-[[7-[(3-ethyl-2-benzothiazolylidene)methyl]-
4,4a,5,6-tetrahydro-2(3H)-naphthylidene]methyl]-, iodide (8CI)

OTHER NAMES:

CN 3,3'-Diethyl-9,11,13(penta-1",3",5"-triyl)-thiatricarbocyanine
iodide

CN 3,3'-Diethyl-9,11,13-(penta-1",3",5"-triyl)thiacarbocyanine iodide

DR 172972-80-4

MF C30 H31 N2 S2 . I

LC STN Files: BEILSTEIN*, CA, CAPLUS, CHEMCATS, IFICDB, IFIPAT,
IFIUDB,

USPATFULL

(*File contains numerically searchable property data)

DT.CA CAplus document type: Journal; Patent

RL.P Roles from patents: PREP (Preparation); USES (Uses)

RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties)

CRN (62203-17-2)

11 REFERENCES IN FILE CA (1907 TO DATE)
11 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 115 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 18371-41-0 REGISTRY
CN Benzothiazolium, 3-phenyl-2-[7-(3-phenyl-2(3H)benzothiazolylidene)-1,3,5-heptatrienyl]-, iodide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Benzothiazolium, 3-phenyl-2-[7-(3-phenyl-2-benzothiazolinyliidene)-1,3,5-heptatrienyl]-, iodide (8CI)
CN Thiatricarbocyanine iodide, 3,3'-diphenyl-
OTHER NAMES:
CN 3,3'-Diphenylthiatricarbocyanine iodide
CN IR 116
MF C33 H25 N2 S2 . I
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB
DT.CA CAplus document type: Conference; Journal; Patent
RL.P Roles from patents: USES (Uses)
RL.NP Roles from non-patents: PRP (Properties); USES (Uses)
CRN (774475-04-6)

4 REFERENCES IN FILE CA (1907 TO DATE)
4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 116 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 18371-36-3 REGISTRY
CN Benzothiazolium, 2-[7-(3-ethyl-2-benzothiazolinyliidene)-1,3,5-heptatrienyl]-3-(4-sulfobutyl)-, hydroxide, inner salt (8CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN Thiatricarbocyanine anhydrohydroxide, 3-ethyl-3'-(4-sulfobutyl)-
OTHER NAMES:
CN 3-Ethyl-3'-(4-sulfobutyl)thiatricarbocyanine anhydrohydroxide
FS 3D CONCORD
MF C27 H28 N2 O3 S3
LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB
DT.CA CAplus document type: Patent
RL.P Roles from patents: USES (Uses)

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 117 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 17777-44-5 REGISTRY
CN Benzothiazolium, 3-methyl-2-[7-(3-methyl-2(3H)-benzothiazolylidene)-1,3,5-heptatrienyl]-, iodide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 3-Methyl-2-[7-(3-methyl-2-benzothiazolinyliidene)-1,3,5-heptatrienyl]benzothiazolium iodide (6CI)
CN Benzothiazolium, 3-methyl-2-[7-(3-methyl-2-benzothiazolinyliidene)-1,3,5-heptatrienyl]-, iodide (8CI)
OTHER NAMES:
CN 3,3'-Dimethyl-2,2'-thiatricarbocyanine iodide
CN Dimethylthiatricarbocyanine iodide
CN NK 1958
MF C23 H21 N2 S2 . I
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, USPATFULL
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: USES (Uses)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); USES (Uses)
RL.NP Roles from non-patents: PRP (Properties); USES (Uses)
CRN (54123-58-9)

8 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
8 REFERENCES IN FILE CAPLUS (1907 TO DATE)
1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 118 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 17695-32-8 REGISTRY
CN Quinolinium, 1-ethyl-2-[7-(1-ethyl-2(1H)-quinolinyliidene)-1,3,5-heptatrienyl]-, iodide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Ethyl-2-[7-(1-ethyl-2(1H)-quinolyliidene)-1,3,5-heptatrienyl]quinolinium iodide (6CI, 7CI)
CN 2,2'-Quinotricarbocyanine iodide, 1,1'-diethyl-
CN Quinolinium, 1-ethyl-2-[7-(1-ethyl-2(1H)-quinolyliidene)-1,3,5-heptatrienyl]-, iodide (8CI)
OTHER NAMES:

CN 1,1'-Diethyl-2,2'-quinotricarbocyanine iodide
CN 1,1'-Diethyl-2,2'-tricarbo-cyanine iodide
CN 1,1'-Diethylquinotricarbocyanine iodide
CN NK 123
DR 24136-70-7
MF C29 H29 N2 . I
CI COM
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CHEMCATS, CHEMLIST, CS-CHEM,
IFICDB, IFIPAT, IFIUIDB, TOXCENTER, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Journal; Patent
RL.P Roles from patents: PROC (Process); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); USES (Uses)
RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: PREP (Preparation)
CRN (37069-61-7)

****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

104 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
104 REFERENCES IN FILE CAPLUS (1907 TO DATE)
6 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 119 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 17094-17-6 REGISTRY
CN 3H-Indolium, 1-ethyl-2-[7-(1-ethyl-1,3-dihydro-3,3-dimethyl-2H-indol-2-ylidene)-1,3,5-heptatrienyl]-3,3-dimethyl-, iodide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 1-Ethyl-2-[7-(1-ethyl-3,3-dimethyl-2-indolinyli-dene)-1,3,5-heptatrienyl]-3,3-dimethyl-3H-indolium iodide (7CI)
CN 3H-Indolium, 1-ethyl-2-[7-(1-ethyl-3,3-dimethyl-2-indolinyli-dene)-1,3,5-heptatrienyl]-3,3-dimethyl-, iodide (8CI)
CN Indotricarbocyanine iodide, 1,1',3,3'-tetramethyl-
OTHER NAMES:
CN NK 1414
MF C31 H37 N2 . I

CI COM

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, USPATFULL

(*File contains numerically searchable property data)

DT.CA CAplus document type: Journal; Patent

RL.P Roles from patents: USES (Uses)

RL.NP Roles from non-patents: PREP (Preparation); PRP (Properties); USES (Uses)

CRN (52754-40-2)

30 REFERENCES IN FILE CA (1907 TO DATE)

30 REFERENCES IN FILE CAPLUS (1907 TO DATE)

2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 120 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 16595-48-5 REGISTRY

CN 3H-Indolium, 2-[7-(1,3-dihydro-1,3,3-trimethyl-2H-indol-2-ylidene)-1,3,5-heptatrienyl]-1,3,3-trimethyl-, perchlorate (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 3H-Indolium, 1,3,3-trimethyl-2-[7-(1,3,3-trimethyl-2-indolinylidene)-1,3,5-heptatrienyl]-, monoperchlorate (8CI)

OTHER NAMES:

CN 1,1',3,3,3',3'-Hexamethyl-2,2'-indotricarbocyanine perchlorate

CN 1,1',3,3,3',3'-Hexamethylindotricarbocyanine perchlorate

CN HITCP

CN NK 2421

MF C29 H33 N2 . Cl O4

LC STN Files: BIOSIS, CA, CAPLUS, CHEMCATS, CHEMLIST, CSCHEM, MEDLINE,

MSDS-OHS, PIRA, TOXCENTER, USPATFULL

Other Sources: EINECS**, NDSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA CAplus document type: Journal; Patent; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); OCCU (Occurrence); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

CM 1

CRN 47676-39-1

CMF C29 H33 N2

CM 2

CRN 14797-73-0

CMF C1 O4

165 REFERENCES IN FILE CA (1907 TO DATE)

165 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 121 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 16384-24-0 REGISTRY

CN Benzothiazolium, 3-ethyl-2-[2-[3-[(3-ethyl-2(3H)-benzothiazolylidene)ethylidene]-2-(1-pyrrolidinyl)-1-cyclopenten-1-yl]ethenyl]-, iodide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzothiazolium, 3-ethyl-2-[2-[3-[2-(3-ethyl-2-benzothiazolylidene)ethylidene]-2-(1-pyrrolidinyl)-1-cyclopenten-1-yl]vinyl]-, iodide (8CI)

OTHER NAMES:

CN 3,3'-Diethyl-10,12-ethylene-11(1-pyrrolidinyl)-thiatricarbocyanine iodide

MF C31 H34 N3 S2 . I

LC STN Files: CA, CAPLUS, IFICDB, IFIPAT, IFIUDB

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); USES (Uses)

CRN (791522-96-8)

4 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 122 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 15185-43-0 REGISTRY

CN Benzoxazolium, 3-ethyl-2-[7-(3-ethyl-2(3H)-benzoxazolylidene)-1,3,5-heptatrienyl]-, iodide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Benzoxazolium, 3-ethyl-2-[7-(3-ethyl-2-benzoxazolylidene)-1,3,5-

heptatrienyl]-, iodide (8CI)

OTHER NAMES:

CN 3,3'-Diethyl-2,2'-oxatricarbocyanine iodide

CN 3,3'-Diethyloxatricarbocyanine iodide

CN DOTC

CN DOTCI

CN LC 7880

CN NK 1511

DR 80892-77-9

MF C25 H25 N2 O2 . I

CI COM

LC STN Files: AGRICOLA, BEILSTEIN*, BIOBUSINESS, CA, CAPLUS, CHEMCATS,

CHEMLIST, CSCHEM, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, PIRA, PROMT, TOXCENTER, USPATFULL

(*File contains numerically searchable property data)

Other Sources: EINECS**, NDSL**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA CAplus document type: Conference; Journal; Patent; Report

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);

PREP (Preparation); PRP (Properties); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); PREP (Preparation); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT

(Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: PRP (Properties)

CRN (37069-77-5)

144 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

144 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L2 ANSWER 123 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 13502-38-0 REGISTRY

CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-2(3H)-benzothiazolylidene)-1,3,5-heptatrienyl]-, bromide (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 3-Ethyl-2-[7-(3-ethyl-2-benzothiazolinyliidene)-1,3,5-heptatrienyl]benzothiazolium bromide (6CI, 7CI)

CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-2-benzothiazolinyliidene)-1,3,5-heptatrienyl]-, bromide (8CI)

CN Thiatricarbocyanine bromide, 3,3'-diethyl- (8CI)

OTHER NAMES:

CN 3,3'-Diethylthiatricarbocyanine bromide
CN NK 1666
MF C25 H25 N2 S2 . Br
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CHEMCATS, IFICDB,
IFIPAT,
IFIUDB, TOXCENTER, USPATFULL
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: USES (Uses)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
study); USES (Uses)
RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation);
PROC (Process); PRP (Properties); USES (Uses); NORL (No role in record)
CRN (23178-68-9)

38 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
38 REFERENCES IN FILE CAPLUS (1907 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 124 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 6846-87-3 REGISTRY
CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-2-benzothiazolinyldene)-2,6-
dimethoxy-1,3,5-heptatrienyl]-, iodide (8CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 3-Ethyl-2-[7-(3-ethyl-2-benzothiazolinyldene)-2,6-dimethoxy-1,3,5-
heptatrienyl]benzothiazolium iodide (7CI)
OTHER NAMES:
CN Thiatricarbocyanine iodide, 3,3'-diethyl-b,b'-dimethoxy-
MF C27 H29 N2 O2 S2 . I
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal
RL.NP Roles from non-patents: NORL (No role in record)
CRN (801154-95-0)

****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

1 REFERENCES IN FILE CA (1907 TO DATE)

1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

1 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 125 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 4742-63-6 REGISTRY

CN 1H-Imidazo[4,5-b]quinolinium, 2-[7-(1,3-diethyl-1,3-dihydro-2H-imidazo[4,5-b]quinolin-2-ylidene)-1,3,5-heptatrienyl]-1,3-diethyl-, iodide (8CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1H-Imidazo[4,5-b]quinotricarbocyanine iodide, 1,1',3,3'-tetraethyl- (8CI)

CN 2-[7-(1,3-Diethyl-1,3-dihydro-2H-imidazo[4,5-b]quinolin-2-ylidene)-1,3,5-heptatrienyl]-1,3-diethyl-1H-imidazo[4,5-b]quinolinium iodide (7CI)

MF C35 H37 N6 . I

LC STN Files: CA, CAOLD, CAPLUS, IFICDB, IFIPAT, IFIUDB

DT.CA CAplus document type: Patent

RL.P Roles from patents: PREP (Preparation); NORL (No role in record)

CRN (126760-11-0)

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

4 REFERENCES IN FILE CA (1907 TO DATE)

4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 126 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN

RN 3599-32-4 REGISTRY

CN 1H-Benz[e]indolium, 2-[7-[1,3-dihydro-1,1-dimethyl-3-(4-sulfobutyl)-2H-benz[e]indol-2-ylidene]-1,3,5-heptatrienyl]-1,1-dimethyl-3-(4-sulfobutyl)-, inner salt, sodium salt (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN 1H-Benz[e]indolium, 2-[7-[1,1-dimethyl-3-(4-sulfobutyl)benz[e]indolin-2-ylidene]-1,3,5-heptatrienyl]-1,1-dimethyl-3-(4-sulfobutyl)-, hydroxide, inner salt, sodium salt (8CI)

CN 1H-Benz[e]indolium, 2-[7-[1,3-dihydro-1,1-dimethyl-3-(4-sulfobutyl)-2H-benz[e]indol-2-ylidene]-1,3,5-heptatrienyl]-1,1-dimethyl-3-(4-sulfobutyl)-, hydroxide, inner salt, sodium salt

OTHER NAMES:

CN 4,5-Benzoindotricarbocyanine

CN Cardio Green

CN HWD Indocyanine Green

CN ICG
CN Indocyanin green
CN Indocyanine green
CN IR 125
CN NK 2611
CN NK 2612
CN Ujoviridin
CN Wofaverdin
DR 58984-23-9
MF C43 H48 N2 O6 S2 . Na
LC STN Files: ADISNEWS, AGRICOLA, ANABSTR, BEILSTEIN*,
BIOBUSINESS, BIOSIS,
BIOTECHNO, CA, CANCERLIT, CAOLD, CAPLUS, CASREACT, CBNB,
CHEMCATS,
CHEMLIST, CIN, CSCHEM, DDFU, DIOGENES, DRUGU, EMBASE, HSDB*,
IPA,
MEDLINE, MRCK*, MSDS-OHS, NIOSHTIC, PIRA, PROMT, RTECS*,
TOXCENTER,
USAN, USPAT2, USPATFULL
(*File contains numerically searchable property data)
Other Sources: EINECS**, NDSL**, TSCA**
(**Enter CHEMLIST File for up-to-date regulatory information)
DT.CA CAplus document type: Conference; Dissertation; Journal; Patent; Report
RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study);
FORM (Formation, nonpreparative); PREP (Preparation); PROC (Process);
PRP (Properties); RACT (Reactant or reagent); USES (Uses)
RLD.P Roles for non-specific derivatives from patents: ANST (Analytical
study); BIOL (Biological study); PREP (Preparation); PRP (Properties);
RACT (Reactant or reagent); USES (Uses)
RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological
study); OCCU (Occurrence); PROC (Process); PRP (Properties); RACT
(Reactant or reagent); USES (Uses); NORL (No role in record)
RLD.NP Roles for non-specific derivatives from non-patents: ANST (Analytical
study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP
(Properties); USES (Uses)
CRN (28782-33-4)

932 REFERENCES IN FILE CA (1907 TO DATE)
22 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA
933 REFERENCES IN FILE CAPLUS (1907 TO DATE)
13 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 127 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 3443-85-4 REGISTRY

CN Benzoselenazolium, 3-ethyl-2-[7-(3-ethyl-2(3H)-benzoselenazolylidene)-1,3,5-heptatrienyl]-, iodide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 3-Ethyl-2-[7-(3-ethyl-2-benzoselenazolinylidene)-1,3,5-heptatrienyl]benzoselenazolium iodide (7CI)
CN Benzoselenazolium, 3-ethyl-2-[7-(3-ethyl-2-benzoselenazolinylidene)-1,3,5-heptatrienyl]-, iodide (8CI)
OTHER NAMES:
CN 3,3'-Diethyl-2,2'-selenatricarbocyanine iodide
CN 3,3'-Diethyl-2,2'-selenatricarbocyanine iodide
CN NK 747
MF C25 H25 N2 Se2 . I
LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, USPATFULL
(*File contains numerically searchable property data)
DT.CA CAplus document type: Journal; Patent
RL.P Roles from patents: USES (Uses)
RL.NP Roles from non-patents: PRP (Properties); USES (Uses)
CRN (37069-85-5)

30 REFERENCES IN FILE CA (1907 TO DATE)
30 REFERENCES IN FILE CAPLUS (1907 TO DATE)
2 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

L2 ANSWER 128 OF 128 REGISTRY COPYRIGHT 2005 ACS on STN
RN 3071-70-3 REGISTRY
CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-2(3H)-benzothiazolylidene)-1,3,5-heptatrienyl]-, iodide (9CI) (CA INDEX NAME)
OTHER CA INDEX NAMES:
CN 3-Ethyl-2-[7-(3-ethyl-2-benzothiazolinylidene)-1,3,5-heptatrienyl]benzothiazolium iodide (6CI, 7CI)
CN Benzothiazolium, 3-ethyl-2-[7-(3-ethyl-2-benzothiazolinylidene)-1,3,5-heptatrienyl]-, iodide (8CI)
CN Thiatricarbocyanine iodide, 3,3'-diethyl- (8CI)
OTHER NAMES:
CN 3,3'-Diethyl-2,2'-thiatricarbocyanine iodide
CN 3,3'-Diethylthiatricarbocyanine iodide
CN DTTC
CN DTTCI
CN NK 126
DR 51895-79-5, 89013-15-0
MF C25 H25 N2 S2 . I
CI COM

LC STN Files: BEILSTEIN*, CA, CAOLD, CAPLUS, CASREACT, CHEMCATS, CHEMLIST,

CIN, CSCHEM, IFICDB, IFIPAT, IFIUDB, MSDS-OHS, PIRA, RTECS*, TOXCENTER,

USPAT2, USPATFULL

(*File contains numerically searchable property data)

Other Sources: DSL**, EINECS**, TSCA**

(**Enter CHEMLIST File for up-to-date regulatory information)

DT.CA CAplus document type: Conference; Journal; Patent

RL.P Roles from patents: ANST (Analytical study); BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses)

RLD.P Roles for non-specific derivatives from patents: ANST (Analytical study); PREP (Preparation); USES (Uses)

RL.NP Roles from non-patents: ANST (Analytical study); BIOL (Biological study); MSC (Miscellaneous); PREP (Preparation); PROC (Process); PRP (Properties); RACT (Reactant or reagent); USES (Uses); NORL (No role in record)

RLD.NP Roles for non-specific derivatives from non-patents: PREP (Preparation); PRP (Properties)

CRN (23178-68-9)

****PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT****

333 REFERENCES IN FILE CA (1907 TO DATE)

6 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

334 REFERENCES IN FILE CAPLUS (1907 TO DATE)

18 REFERENCES IN FILE CAOLD (PRIOR TO 1967)

=> file caplus

| COST IN U.S. DOLLARS | ENTRY | SINCE FILE SESSION | TOTAL |
|----------------------|-------|--------------------|--------|
| FULL ESTIMATED COST | | 249.45 | 255.78 |

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FILE COVERS 1907 - 8 Mar 2005 VOL 142 ISS 11
FILE LAST UPDATED: 7 Mar 2005 (20050307/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> s ?tricarboyanine
L4 638 ?TRICARBOCYANINE

=> s l4 and (fluoresc? or chromophore)
406017 FLUORESC?
23109 CHROMOPHORE
L5 173 L4 AND (FLUORESC? OR CHROMOPHORE)

=> s l5 and particle
637604 PARTICLE
L6 2 L5 AND PARTICLE

=> d 1-2

L6 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:391992 CAPLUS
DN 135:2542
TI Fluorescence energy transfer in particles
IN Buechler, Kenneth F.; Noar, Joseph Barry; Tadesse, Lema
PA Biosite Diagnostics, Inc., USA
SO U.S., 30 pp., Cont.-in-part of U.S. Ser. No. 138,708, abandoned.
CODEN: USXXAM
DT Patent
LA English
FAN.CNT 7

| | PATENT NO. | | KIND | DATE | APPLICATION NO. | DATE |
|----|------------|----|----------|-----------------|-----------------|-------|
| | ----- | | ----- | ----- | ----- | ----- |
| PI | US 6238931 | B1 | 20010529 | US 1994-274534 | 19940712 | |
| | CA 2149419 | AA | 19950330 | CA 1994-2149419 | 19940923 | |
| | WO 9508772 | A1 | 19950330 | WO 1994-US10826 | 19940923 | |

W: AU, CA, JP

RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE

AU 9480112 A1 19950410 AU 1994-80112 19940923

EP 670041 A1 19950906 EP 1994-931287 19940923

EP 670041 B1 20020130

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE

JP 08503994 T2 19960430 JP 1994-509970 19940923

US 5763189 A 19980609 US 1994-311098 19940923

US 6251687 B1 20010626 US 1995-409298 19950323

AT 212721 E 20020215 AT 1994-931287 19950330

US 5824799 A 19981020 US 1996-620597 19960322

US 2002061602 A1 20020523 US 2001-776599 20010201

PRAI US 1993-126367 B2 19930924

US 1993-138708 B2 19931018

US 1994-274534 A 19940712

US 1994-311098 A2 19940923

WO 1994-US10826 W 19940923

US 1995-409298 A2 19950323

US 1995-409825 A2 19950323

US 1996-620597 A1 19960322

US 1998-66255 A2 19980424

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2000:736913 CAPLUS

DN 134:78514

TI Photophysical properties of two infrared laser dyes-IR-144 and IR-140: A
picosecond laser flash photolysis study

AU Mohanty, Jyotirma Yee; Palit, Dipak K.; Mittal, Jai P.

CS Radiation Chemistry and Chemical Dynamics Division, Bhabha Atomic Research
Centre, Mumbai, 400 085, India

SO PINSA-A: Proceedings of the Indian National Science Academy, Part A:
Physical Sciences (2000), 66(2), 303-315

CODEN: PAPSFT

PB Indian National Science Academy

DT Journal

LA English

RE.CNT 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS
RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> s 14 and particle

637604 PARTICLE
L7 4 L4 AND PARTICLE

=> d 1-4

L7 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2001:391992 CAPLUS

DN 135:2542

TI Fluorescence energy transfer in particles

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SO U.S., 30 pp., Cont.-in-part of U.S. Ser. No. 138,708, abandoned.

CODEN: USXXAM

DT Patent

LA English

FAN.CNT 7

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---|------|----------|-----------------|----------|
| PI US 6238931 | B1 | 20010529 | US 1994-274534 | 19940712 |
| CA 2149419 | AA | 19950330 | CA 1994-2149419 | 19940923 |
| WO 9508772 | A1 | 19950330 | WO 1994-US10826 | 19940923 |
| W: AU, CA, JP | | | | |
| RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE | | | | |
| AU 9480112 | A1 | 19950410 | AU 1994-80112 | 19940923 |
| EP 670041 | A1 | 19950906 | EP 1994-931287 | 19940923 |
| EP 670041 | B1 | 20020130 | | |
| R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE | | | | |
| JP 08503994 | T2 | 19960430 | JP 1994-509970 | 19940923 |
| US 5763189 | A | 19980609 | US 1994-311098 | 19940923 |
| US 6251687 | B1 | 20010626 | US 1995-409298 | 19950323 |
| AT 212721 | E | 20020215 | AT 1994-931287 | 19950330 |
| US 5824799 | A | 19981020 | US 1996-620597 | 19960322 |
| US 2002061602 | A1 | 20020523 | US 2001-776599 | 20010201 |
| PRAI US 1993-126367 | B2 | 19930924 | | |
| US 1993-138708 | B2 | 19931018 | | |
| US 1994-274534 | A | 19940712 | | |
| US 1994-311098 | A2 | 19940923 | | |
| WO 1994-US10826 | W | 19940923 | | |
| US 1995-409298 | A2 | 19950323 | | |
| US 1995-409825 | A2 | 19950323 | | |
| US 1996-620597 | A1 | 19960322 | | |
| US 1998-66255 | A2 | 19980424 | | |

RE.CNT 6 THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS
RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2000:736913 CAPLUS

DN 134:78514

TI Photophysical properties of two infrared laser dyes-IR-144 and IR-140: A
picosecond laser flash photolysis study

AU Mohanty, Jyotirma Yee; Palit, Dipak K.; Mittal, Jai P.

CS Radiation Chemistry and Chemical Dynamics Division, Bhabha Atomic Research
Centre, Mumbai, 400 085, India

SO PINSA-A: Proceedings of the Indian National Science Academy, Part A:
Physical Sciences (2000), 66(2), 303-315

CODEN: PAPSFT

PB Indian National Science Academy

DT Journal

LA English

RE.CNT 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS
RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1997:450862 CAPLUS

DN 127:212077

TI Cancellation of photoinduced absorption in metal nanoparticle composites
through a counterintuitive consequence of local field effects

AU Smith, David D.; Fischer, George; Boyd, Robert W.; Gregory, Don A.

CS Space Sci. Lab., NASA Marshall Space Flight Center, Huntsville, AL, 35812,
USA

SO Journal of the Optical Society of America B: Optical Physics (1997),
14(7), 1625-1631

CODEN: JOBPDE; ISSN: 0740-3224

PB Optical Society of America

DT Journal

LA English

L7 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

AN 1997:131866 CAPLUS

DN 126:137631

TI Dye diffusion transfer type silver halide color photographic material
having dyed interlayer to improve color discrimination

IN Iijima, Hirotaka; Oohayashi, Keiji

PA Konishiroku Photo Ind, Japan

SO Jpn. Kokai Tokkyo Koho, 25 pp.

CODEN: JKXXAF

DT Patent
LA Japanese
FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------|------|----------|-----------------|----------|
| PI JP 08304983 | A2 | 19961122 | JP 1995-114599 | 19950512 |
| PRAI JP 1995-114599 | | 19950512 | | |

=> d 4 ab

L7 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2005 ACS on STN

AB Claimed diffusion transfer type color photog. material has, on a substrate, ³3 light-sensitive layers contg. Ag halide emulsion, dye donor and the binder, where a dispersion of oil-sol. dye and fine particles of inorg. colored solid is incorporated in ³1 of the light-sensitive and/or light-insensitive layer. The material is spectrally sensitive at least in 750-790 and 800-850 nm, and the colored interlayer has the absorbance in 720-780 nm. It has an improved color discrimination, color balance and uniformity of dye d., and is suitable for color scanner purposes using a laser diode as the imaging light source. Suitable dyes are di- or tricarbocyanines and indoaniline dyes. Thus, a multilayer donor film of a dye diffusion transfer material was provided an interlayer contg. aq. dispersions of fine carbon black particles (0.02 mm) and 1,1,1',1'-tetramethyl-3,3'-di-n-butyl-6,6'-di-tetrafluoroboronylbenzo-tricarbocyanine in gelatin to provide the mentioned advantages.

=> s (28645-14-9 or 5101-97-0 or 51437-63-9 or 54849-69-3 or 54849-65-9 or 54849-63-7)

REG1stRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...
Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L9 4 L8

REG1stRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L11 10 L10

REG1stRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L13 86 L12

REG1stRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L15 7 L14

REG1stRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L17 5 L16

0 5101-97-0
L18 105 (L17 OR 5101-97-0 OR L15 OR L13 OR L11 OR L9)

=> s 118 and particle
637604 PARTICLE
L19 1 L18 AND PARTICLE

=> d

L19 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2000:736913 CAPLUS
DN 134:78514
TI Photophysical properties of two infrared laser dyes-IR-144 and IR-140: A
picosecond laser flash photolysis study
AU Mohanty, Jyotirma Yee; Palit, Dipak K.; Mittal, Jai P.
CS Radiation Chemistry and Chemical Dynamics Division, Bhabha Atomic Research
Centre, Mumbai, 400 085, India
SO PINSA-A: Proceedings of the Indian National Science Academy, Part A:
Physical Sciences (2000), 66(2), 303-315
CODEN: PAPSFT
PB Indian National Science Academy
DT Journal
LA English
RE.CNT 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS
RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> d kwic

L19 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

AB . . . a major contributing pathway for the relaxation of the excited
singlet state. Inspection of the ground state absorption spectra and
particle size measurements indicated extensive aggregation of IR-144 in
aq. and aq.-org. mixed solvents, while IR-140 showed little evidence of
aggregation.. . .
IT 54849-69-3, IR-144
RL: PEP (Physical, engineering or chemical process); PRP (Properties);
PROC (Process)

(IR-144; picosecond laser flash photolysis study of photophys.
properties of tricarbocyanine dyes IR-144 and IR-140)

=> s (56289-67-9 or 55281-19-1)

REG1stRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L21 30 L20

REG1stRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress...

Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L23 17 L22

L24 46 (L23 OR L21)

=> s l24 and particle

637604 PARTICLE

L25 1 L24 AND PARTICLE

=> d

L25 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

AN 2003:200589 CAPLUS

DN 138:229217

TI Flash-fixing electrophotographic toner containing localized IR absorber

IN Sasa, Nobumasa

PA Konica Co., Japan

SO Jpn. Kokai Tokkyo Koho, 10 pp.

CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

| PATENT NO. | KIND | DATE | APPLICATION NO. | DATE |
|---------------------|------|----------|-----------------|----------|
| PI JP 2003076055 | A2 | 20030314 | JP 2001-265699 | 20010903 |
| PRAI JP 2001-265699 | | 20010903 | | |

=> d kwic

L25 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2005 ACS on STN

AB . . . electrophotog. toner is characterized by contg. an IR-absorbing dye which is localized close to the toner surface and has a particle size ratio to the toner particle of 0.001-0.2. The toner is manuf. by a method selected from (1) adding an IR absorber dispersed in a medium. . . agent with an IR absorber and treating the toner with the exterior treating agent, (5) dispersing and expanding the toner particle in a soln. contg. an IR absorber, and (6) adding an IR absorber in the monomer compn. forming the toner particle.

IT 28984-20-5 55281-19-1 162164-10-5, SIR 130 403981-29-3

RL: MOA (Modifier or additive use); USES (Uses)

(flash-fixing electrophotog. toner contg. localized IR absorber)

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